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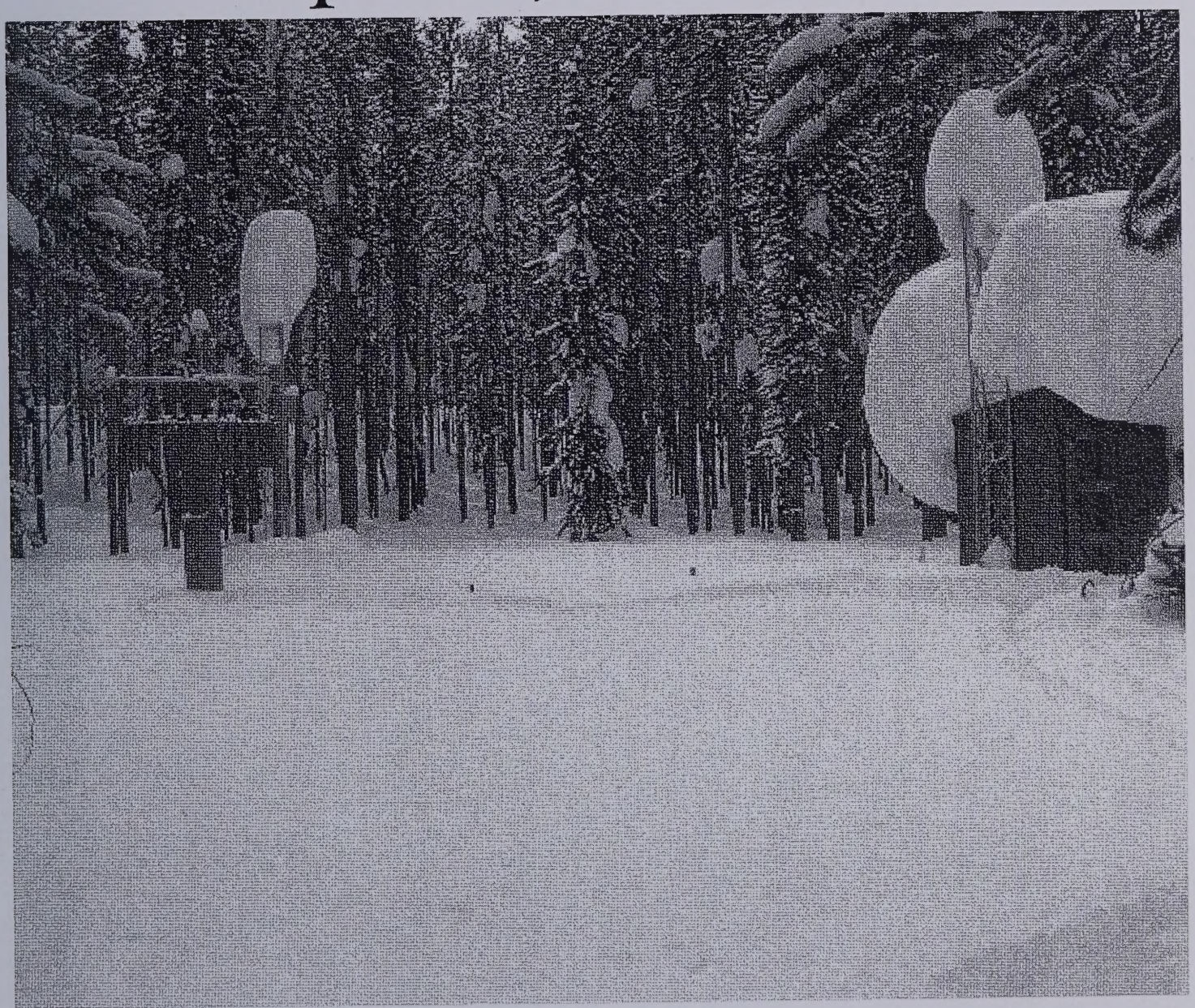
Natural Resources Conservation Service

Montana Water Supply Outlook Report April 1, 2011



Picture: Madison Plateau SNOTEL Site near West Yellowstone

Water Supply Outlook Report
and
Federal - State - Private
Cooperative Snow Surveys

For more water supply and resource management information, contact:

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How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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Montana Water Supply Outlook Report as of April 1, 2011

Across the state the month of March yielded slightly above average precipitation to a mountain snowpack that was already in good standing. Streamflow forecasts also shifted this month to reflect the increase in snowpack.

Snowpack

Typical snowpack accumulation on April 1 for the Columbia is 96 percent of maximum snowpack; Missouri is 93 percent; and Yellowstone is 91 percent. State-wide mountain snow water content was 120 percent of average and 185 percent of last year. West of the Divide snowpack was 121 percent of average and 198 percent of last year. East of the Divide snowpack was 116 percent of average and 169 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR	MARCH % CHANGE
COLUMBIA	121	198	+6
KOOTENAI, MONTANA	126	203	+9
KOOTENAI, CANADA	112	152	+12
FLATHEAD, MONTANA	129	198	+6
FLATHEAD, CANADA	130	179	-6
UPPER CLARK FORK	115	182	-4
BITTERROOT	107	195	+4
LOWER CLARK FORK	123	227	+6
MISSOURI	116	168	+5
MISSOURI HEADWATERS	113	164	+7
JEFFERSON	110	157	+6
MADISON	113	179	+10
GALLATIN	116	158	+4
MISSOURI MAINSTEM	125	171	+1
HEADWATERS MAINSTEM	114	150	+4
SMITH-JUDITH-MUSSELSHELL	122	142	-4
SUN-TETON-MARIAS	116	241	+11
MILK (Bearpaw Mtns.)	170	240	-15
ST. MARY	123	204	+12
ST. MARY & MILK	140	210	-4
YELLOWSTONE	115	166	+7
UPPER YELLOWSTONE	122	182	+9
LOWER YELLOWSTONE	107	153	+4
STATEWIDE	120	185	+7

Precipitation

March mountain and valley precipitation across the state was 128 percent of average and 198 percent of last year, while the water year precipitation was 115 percent of average and 152 percent of last year. West of the Continental Divide, March mountain and valley precipitation was 136 percent of average and 180 percent of last year and the water year precipitation was 117 percent of average and 165 percent of last year. East of the Divide, March mountain and valley precipitation was 122 percent of average and 214 percent of last year and the water year precipitation was 113 percent of average and 142 percent of last year.

RIVER BASIN	MARCH % OF AVERAGE	WATER YEAR % OF AVERAGE
COLUMBIA	136	117
KOOTENAI	167	119
FLATHEAD	146	123
UPPER CLARK FORK	109	112
BITTERROOT	124	112
LOWER CLARK FORK	144	120
MISSOURI	119	113
JEFFERSON	129	111
MADISON	133	110
GALLATIN	121	112
MISSOURI MAINSTEM	105	124
SMITH-JUDITH-MUSSELSHELL	95	115
SUN-TETON-MARIAS	131	106
MILK	125	125
ST. MARY	147	113
YELLOWSTONE	129	113
UPPER YELLOWSTONE	147	118
LOWER YELLOWSTONE	115	109
STATEWIDE	128	115

Reservoirs

State-wide reservoir storage was 110 percent of average and 106 percent of last year. Reservoir storage west of the divide was 121 percent of average and 79 percent of last year. East of the Divide, reservoir storage was 107 percent of average and 116 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	121	79
KOOTENAI	134	67
FLATHEAD	113	90
UPPER CLARK FORK	134	109
BITTERROOT	140	183
LOWER CLARK FORK	112	94
MISSOURI	106	118
JEFFERSON	110	100
MADISON	105	92
GALLATIN	136	96
MISSOURI MAINSTEM	106	119
SMITH-JUDITH-MUSSELSHELL	128	124
SUN-TETON-MARIAS	111	111
MILK	204	179
ST. MARY	134	96
YELLOWSTONE	110	94
UPPER YELLOWSTONE	147	118
LOWER YELLOWSTONE	110	94
STATEWIDE	110	106

Streamflow

State-wide, streamflows are forecast to be 119 percent of average. West of the Divide streamflows are forecast to be 124 percent of average and east of the Divide are forecast to be 116 percent of average.

Following are streamflow forecasts for the period April 1 through July 31. THESE FORECASTS ASSUME NEAR NORMAL SPRING CONDITIONS AND DO NOT ACCOUNT FOR WELL BELOW AVERAGE (70% or less) OR WELL ABOVE AVERAGE (130% or more) SNOWMELT OR SPRING RAIN. Specific forecast probabilities are available in each individual River Basin Report.

RIVER BASIN	April-July THIS YEAR % OF AVERAGE	April-July LAST YEAR % OF AVERAGE
COLUMBIA	124	58
KOOTENAI	115	59
FLATHEAD	137	69
UPPER CLARK FORK	116	56
BITTERROOT	109	48
LOWER CLARK FORK	126	46
MISSOURI	118	54
JEFFERSON	106	46
MADISON	110	62
GALLATIN	110	71
MISSOURI MAINSTEM	115	52
SMITH-JUDITH-MUSSELSHELL	127	66
SUN-TETON-MARIAS	117	49
MILK	117	53
ST. MARY	164	71
YELLOWSTONE	112	61
UPPER YELLOWSTONE	117	66
LOWER YELLOWSTONE	107	53
STATEWIDE	119	58

NOTE: The APRIL-JULY LAST YEAR % OF AVERAGE column above is what was forecast last year at this same time, NOT what actually occurred.

Surface Water Supply Index

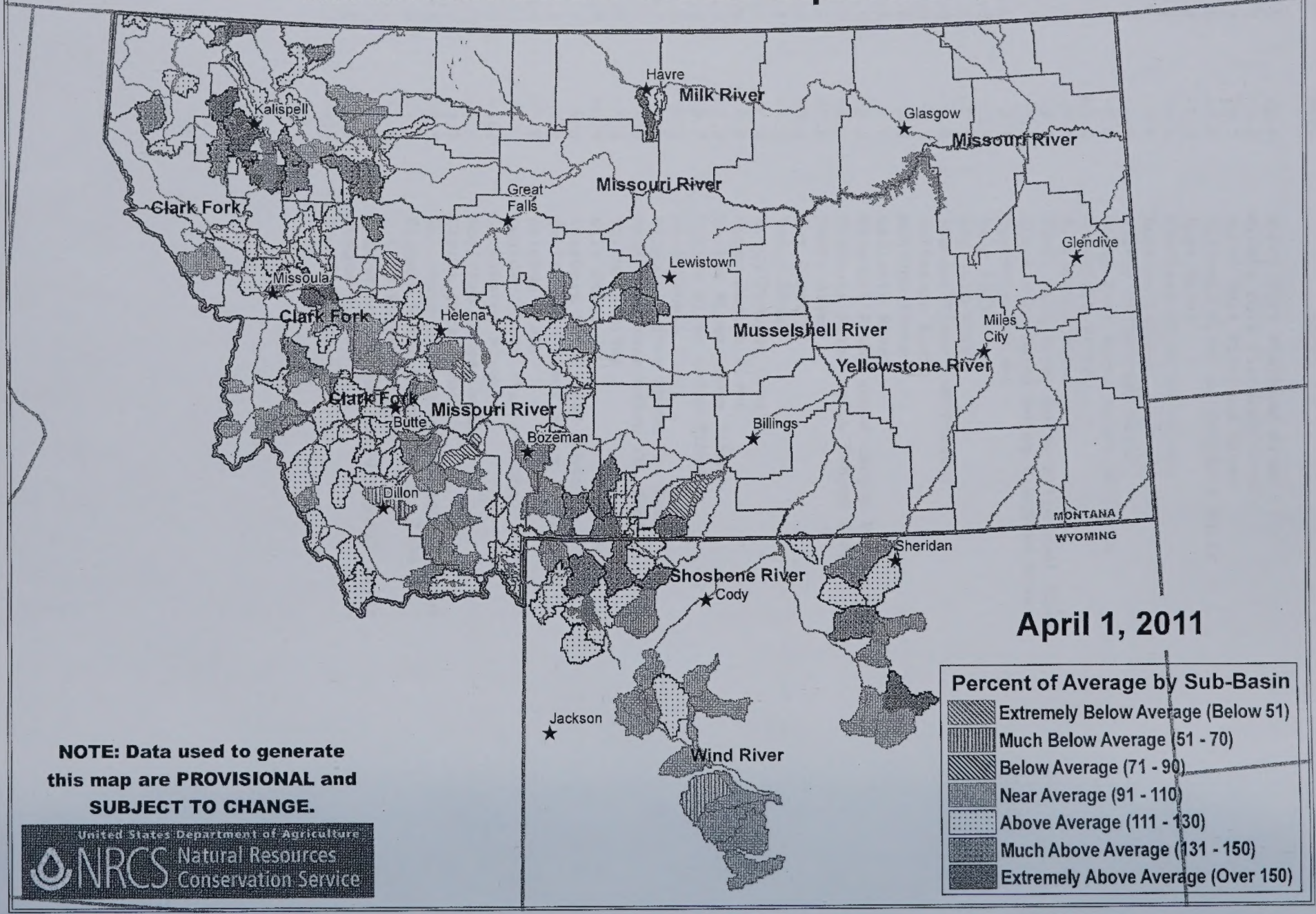
The Surface Water Supply Index (SWSI) is a measure of available surface water availability for the spring and summer months. Water users that rely on mountain precipitation can use the index to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

SWSI RATING	SURFACE WATER CONDITION
+3.0 to +4.0	Extremely Wet
+2.0 to +3.0	Moderately Wet
+1.0 to +2.0	Slightly Wet
-1.0 to +1.0	Near Average
-1.0 to -2.0	Slightly Dry
-2.0 to -3.0	Moderately Dry
-3.0 to -4.0	Extremely Dry

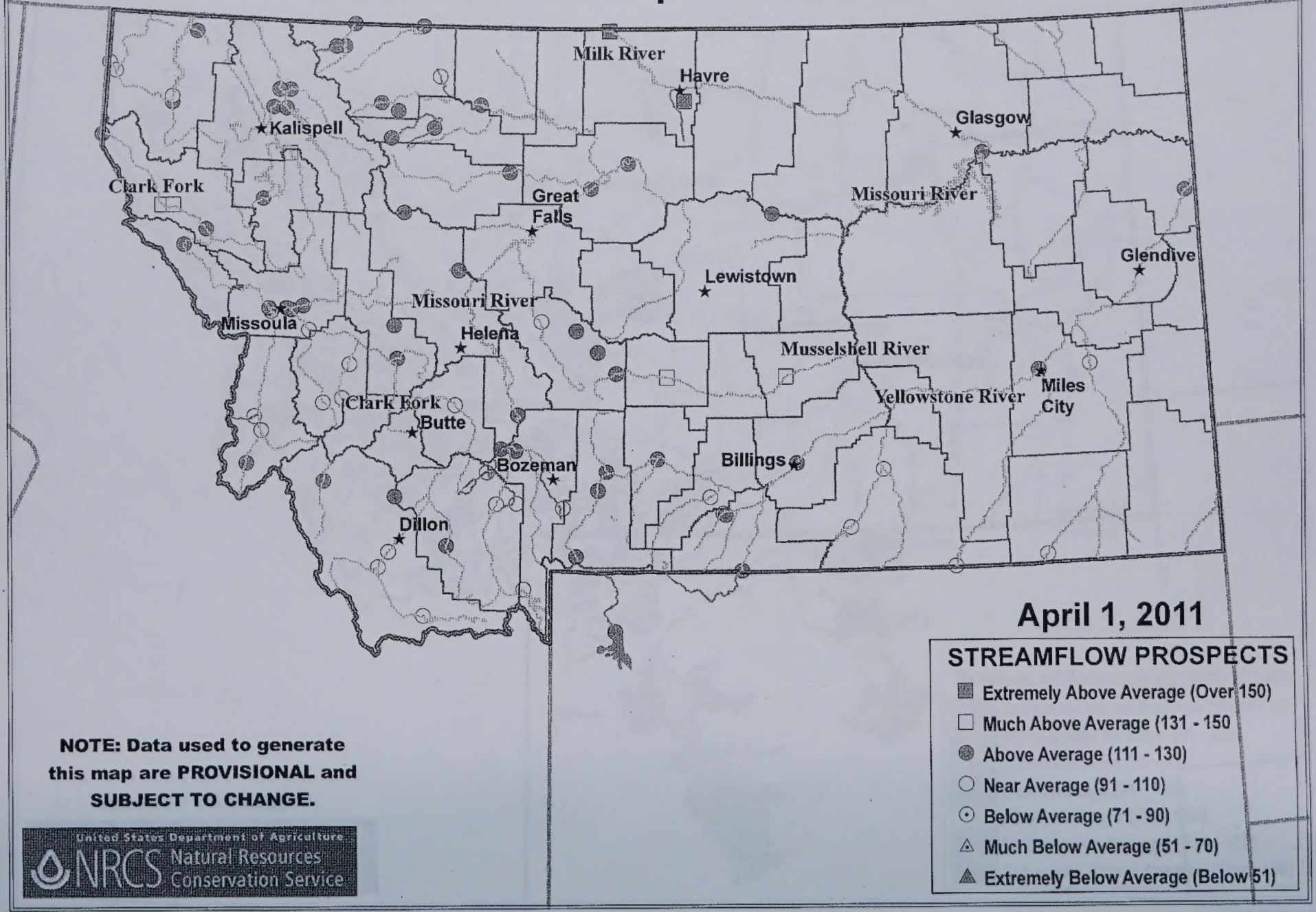
This Year SWSI	Last Year SWSI	Basin
+2.4	-3.2	Tobacco River
+1.9	-3.4	Kootenai Ft. Steele to Libby Dam
+2.6	-0.9	Kootenai River below Libby Dam
+2.1	-3.1	Fisher River
+1.3	-3.4	Yaak River

This Year SWSI	Last Year SWSI	Basin
+2.5	-3.4	North Fork Flathead River
+2.8	-3.6	Middle Fork Flathead River
+3.9	-0.7	South Fork Flathead River
+3.5	-2.6	Flathead River at Columbia Falls
+3.8	-1.4	Swan River
+2.9	-3.4	Flathead River at Polson
----	----	Mission Valley
+1.7	----	Little Bitterroot River
+2.1	-2.5	Clark Fork River above Milltown
+2.5	-3.0	Blackfoot River
+1.9	-3.6	Bitterroot River
+2.3	-3.2	Clark Fork River below Bitterroot River
+2.7	-3.3	Clark Fork River below Flathead River
+1.0	-0.9	Beaverhead River
+1.3	-1.9	Ruby River
+1.5	-2.6	Big Hole River
+0.8	-1.8	Boulder River (Jefferson)
+1.9	-1.3	Jefferson River
+1.0	-2.8	Madison River
+2.1	-2.5	Gallatin River
+1.6	-2.6	Missouri River above Canyon Ferry
0.0	-3.3	Missouri River below Canyon Ferry
+2.2	-1.0	Smith River
+1.4	-3.9	Sun River
+1.8	-2.2	Teton River
+2.1	-2.6	Birch/Dupuyer Creeks
+3.6	+2.2	Upper Judith River
+1.2	-3.3	Marias River above Tiber
+2.6	-2.7	Marias River below Tiber
+2.8	+0.1	Musselshell River
+0.7	-1.5	Missouri River above Ft. Peck
+2.4	-1.8	Missouri River below Ft. Peck
+2.8	-3.4	St. Mary River
+2.9	-0.9	Milk River
+2.1	-3.3	Dearborn River near Craig
+2.2	-3.4	Yellowstone River above Livingston
+2.6	+1.0	Shields River
+3.1	-2.7	Boulder River (Yellowstone)
+1.7	-3.3	Stillwater River
0.0	-1.1	Rock/Red Lodge Creeks
+2.6	-3.2	Clarks Fork River
+2.3	-3.3	Yellowstone River above Bighorn River
+1.4	-1.1	Bighorn River below Bighorn Lake
+1.2	-2.4	Little Bighorn River
+1.9	-2.3	Yellowstone River below Bighorn River
+2.4	-2.7	Tongue River
+1.7	-1.8	Powder River

Mountain Snow Water Equivalent



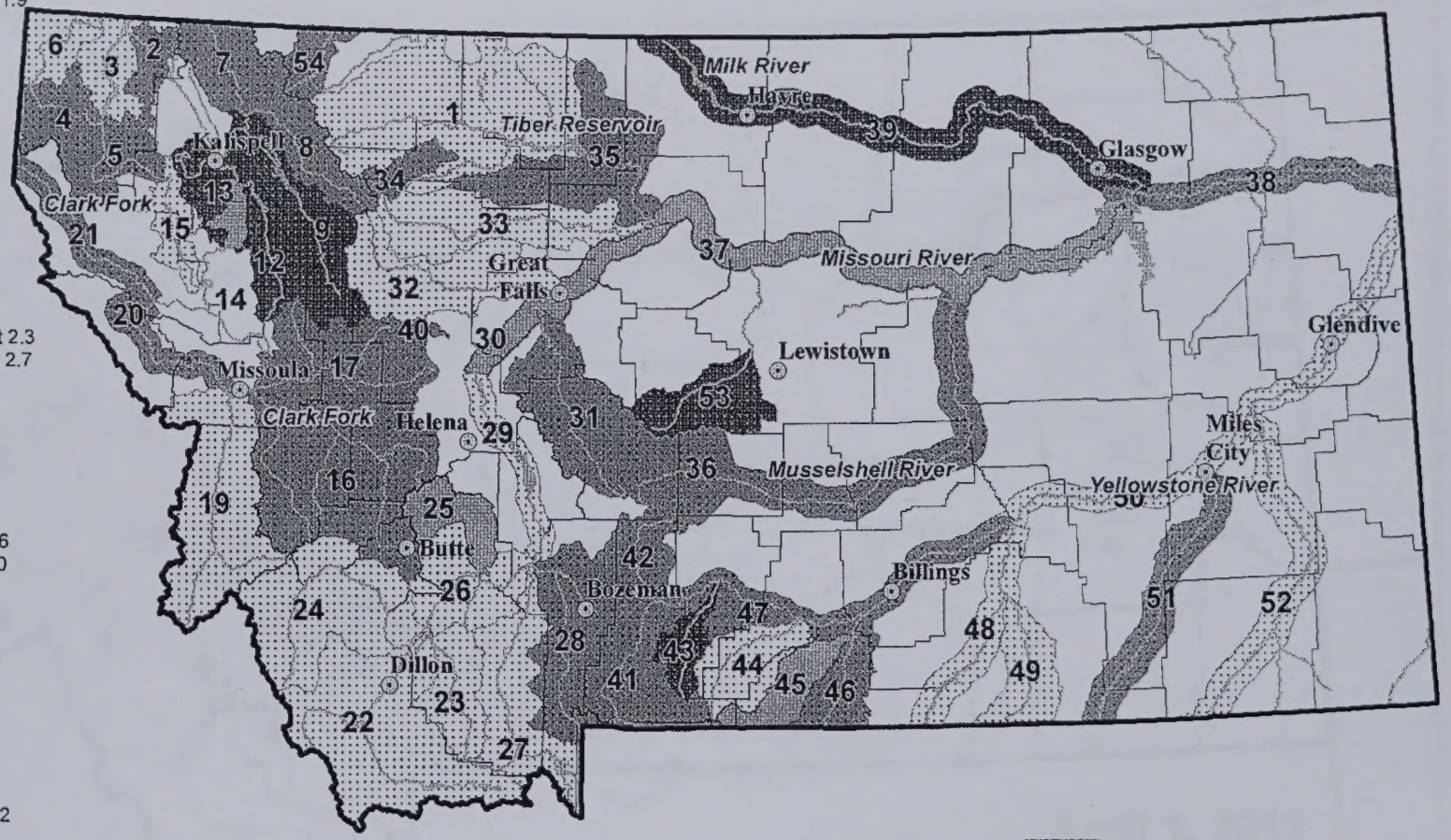
Streamflow Prospects for Montana



Surface Water Supply Index (SWSI) Values

RIVER INDEX & SWSI VALUES

1 Marias above Tiber Reservoir 1.2
2 Tobacco 2.4
3 Kootenai Ft. Steele to Libby Dam 1.9
4 Kootenai below Libby Dam 2.6
5 Fisher 2.1
6 Yaak 1.3
7 North FK. Flathead 2.5
8 Middle FK. Flathead 2.8
9 South FK. Flathead 3.9
10 Flathead at Columbia Falls 3.5
12 Swan 3.8
13 Flathead at Polson 2.9
15 Little Bitterroot 1.7
16 Clark Fork above Milltown 2.1
17 Blackfoot 2.5
18 Clark Fork above Missoula 2.5
19 Bitterroot 1.9
20 Clark Fork River below Bitterroot 2.3
21 Clark Fork River below Flathead 2.7
22 Beaverhead 1.0
23 Ruby 1.3
24 Big Hole 1.5
25 Boulder (Jefferson) 0.8
26 Jefferson 1.9
27 Madison 1.0
28 Gallatin 2.1
29 Missouri above Canyon Ferry 1.6
30 Missouri below Canyon Ferry 0.0
31 Smith 2.2
32 Sun 1.4
33 Teton 1.8
34 Birch/Dupuyer Creeks 2.1
35 Marias 2.6
36 Musselshell 2.8
37 Missouri above Fort Peck 0.7
38 Missouri below Fort Peck 2.4
39 Milk 2.9
40 Dearborn near Craig 2.1
41 Yellowstone above Livingston 2.2
42 Shields 2.6
43 Boulder (Yellowstone) 3.1
44 Stillwater 1.7
45 Rock/Red Lodge Creeks 0.0
46 Clarks Fork Yellowstone 2.6
47 Yellowstone above Bighorn River 2.3
48 Bighorn below Bighorn Lake 1.4
49 Little Bighorn 1.2
50 Yellowstone below Bighorn 1.9
51 Tongue 2.4
52 Powder 1.7
53 Upper Judith 3.6
54 Saint Mary 2.8



United States Department of Agriculture
NRCS Natural Resources Conservation Service

April 1, 2011

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

- Extremely Dry -4.0 to -3.0
- Moderately Dry -2.9 to -2.0
- Slightly Dry -1.9 to -1.0
- Near Average -0.9 to 0.9
- Slightly Wet 1.0 to 1.9
- Moderately Wet 2.0 to 2.9
- Extremely Wet 3.0 to 4.0
- SWSI Not Applicable

SNOTEL AND SNOW COURSE SITE DATA
APRIL 2011

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
ABUNDANCE LAKE	8800	4/01/11	---	24.0E	14.2	20.6
ALBRO LAKE SNOTEL	8300	4/01/11	60	16.7	17.1	20.8
AMBROSE	6480	3/27/11	50	16.5	8.2	12.4
ARCH FALLS	7350	3/25/11	45	12.2	6.9	11.9
ASHLEY DIVIDE	4820	3/30/11	34	11.0	1.8	6.0
ASHLEY LAKE	4000	3/30/11	22	7.0	.6	5.5
BADGER PASS SNOTEL	6900	4/01/11	97	37.7	24.7	35.3
BANFIELD MTN SNOTEL	5600	4/01/11	70	21.1	10.0	19.8
BAREE CREEK	5500	4/01/11	---	51.7E	22.7	43.1
BAREE MIDWAY	4600	4/01/11	95	35.2	17.7	33.0
BAREE TRAIL	3800	3/30/11	42	14.3	1.8	7.7
BARKER LAKES SNOTEL	8250	4/01/11	57	15.3	15.4	14.6
BASIN CREEK SNOTEL	7180	4/01/11	33	8.2	7.1	8.7
BASSOO PEAK	5150	3/29/11	46	14.3	4.3	9.7
BEAGLE SPGS SNOTEL	8850	4/01/11	42	11.5	9.8	9.3
BEAR BASIN	8150	3/28/11	74	25.2	16.4	20.4
BEAVER CREEK SNOTEL	7850	4/01/11	75	23.5	12.5	18.2
BERRY MEADOW	7000	3/28/11	37	6.7	4.3	7.4
BIG SNOWY	7150	3/30/11	65	24.2	23.0	20.2
BISSON CREEK SNOTEL	4920	4/01/11	56	18.2	9.2	9.9
BLACK BEAR SNOTEL	7950	4/01/11	135	48.5	23.4	39.8
BLACK MOUNTAIN	7750	3/31/11	56	16.2	11.8	14.6
BLACK PINE SNOTEL	7100	4/01/11	48	15.1	8.0	12.5
BLACKTAIL	5650	3/27/11	59	20.4	8.0	14.2
BLACKTAIL MTN SNOTEL	5650	4/01/11	58	21.5	--	--
BLOODY DICK SNOTEL	7550	4/01/11	47	13.5	7.0	12.6
BLUE LAKE	5900	4/01/11	---	24.0E	13.4	23.7
BOTS SOTS	7750	3/25/11	41	10.8	3.2	7.8
BOULDER MTN SNOTEL	7950	4/01/11	75	22.4	16.8	20.4
BOX CANYON SNOTEL	6700	4/01/11	47	16.3	6.2	10.4
BOXELDER CREEK	5100	4/01/11	32	9.4	4.9	7.6
BRACKETT CR SNOTEL	7320	4/01/11	84	27.0	20.5	21.5
BRANHAM LAKES	8850	3/23/11	88	29.2	26.2	28.9
BRISTOW CREEK	3900	3/27/11	38	12.1	1.5	8.4
BRUSH CREEK TIMBER	5000	3/28/11	49	19.9	3.8	8.1
BULL MOUNTAIN	6600	3/29/11	32	7.6	2.6	5.9
BURNT MTN SNOTEL	5880	4/01/11	17	5.9	3.8	6.2
CABIN CREEK	5200	3/26/11	29	8.2	.8	5.4
CALL ROAD	8050	4/01/11	---	12.5E	7.2	11.9
CALVERT CR SNOTEL	6430	4/01/11	34	10.7	4.7	8.1
CAMP SENIA	7890	3/25/11	58	15.2	6.4	6.2
CARROT BASIN SNOTEL	9000	4/01/11	99	30.7	19.3	28.1
CARTER CREEK	7400	3/25/11	20	4.4	5.2	6.3
CEDAR GROVE	3760	3/30/11	38	13.4	4.9	11.4
CHESSMAN RESERVOIR	6200	3/28/11	24	6.4	3.5	3.5
CHICKEN CREEK	4060	3/29/11	57	20.8	9.7	15.2
CLOVER MDW SNOTEL	8800	4/01/11	60	17.4	13.9	18.0
COLE CREEK SNOTEL	7850	4/01/11	45	12.1	13.6	16.4
COLLEY CREEK	6300	3/28/11	36	10.8	5.0	7.9
COMBINATION SNOTEL	5600	4/01/11	17	6.0	3.9	4.9
COPPER BOTTOM SNOTEL	5200	4/01/11	19	7.0	.0	11.0

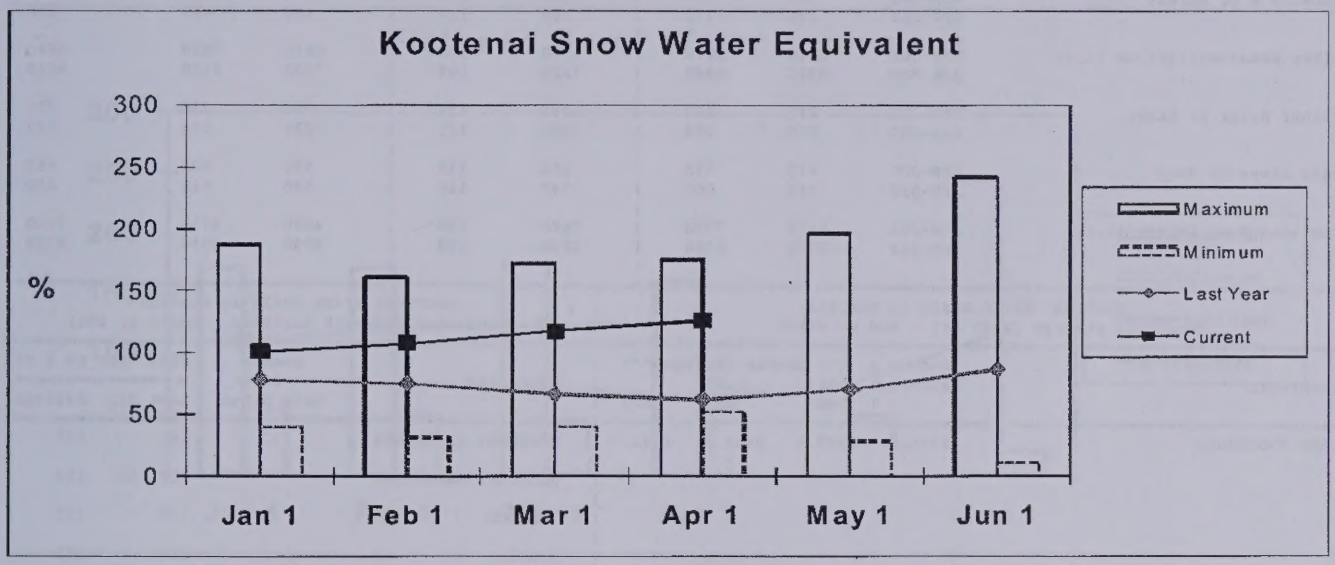
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
COPPER CAMP SNOTEL	6950	4/01/11	129	52.7	26.6	--
COPPER CREEK	5700	3/26/11	37	11.2	2.9	13.3
COPPER MOUNTAIN	7700	3/29/11	49	14.0	8.7	11.2
COTTONWOOD CREEK	6400	3/31/11	29	8.0	4.8	8.3
COYOTE HILL	4200	3/31/11	31	11.2	5.4	8.7
CREVICE MOUNTAIN	8400	4/01/11	51	17.1	5.9	10.8
CRYSTAL LAKE SNOTEL	6050	4/01/11	57	19.1	16.0	12.3
DAD CREEK LAKE	8400	4/01/11	---	17.4E	12.6	14.9
DAISY PEAK SNOTEL	7600	4/01/11	42	10.8	9.9	11.0
DALY CREEK SNOTEL	5780	4/01/11	38	12.4	7.4	11.1
DARKHORSE LK. SNOTEL	8700	4/01/11	108	34.9	21.9	32.5
DAVIS CREEK	5400	3/28/11	83	28.5	15.8	24.2
DEADMAN CR SNOTEL	6450	4/01/11	44	13.5	9.8	10.0
DESERT MOUNTAIN	5600	3/30/11	58	17.7	8.9	14.7
DISCOVERY BASIN	7050	3/28/11	47	12.7	7.9	10.4
DIVIDE SNOTEL	7800	4/01/11	46	12.3	8.3	11.3
DIX HILL	6400	3/27/11	36	12.1	5.8	10.3
DUPUYER CREEK SNOTEL	5750	4/01/11	40	12.3	4.9	9.9
EAGLE CREEK	7000	4/02/11	56	19.8	10.6	13.8
EAST FORK R.S.	5400	3/30/11	19	4.9	1.3	4.7
EL DORADO MINE	7800	3/25/11	46	12.1	7.4	20.2
ELK HORN SPRINGS	7800	4/01/11	---	11.2E	5.1	9.1
ELK PEAK	8000	4/01/11	61	18.8	11.4	16.1
EMERY CREEK SNOTEL	4350	4/01/11	52	19.4	9.1	15.3
FATTY CREEK	5500	4/01/11	---	31.6E	17.1	24.3
FISH CREEK	8000	3/31/11	42	10.7	9.4	9.9
FISHER CREEK SNOTEL	9100	4/01/11	128	42.9	22.4	35.4
FIVE-BULL	5700	3/25/11	30	8.6	1.8	5.5
FLATTOP MTN SNOTEL	6300	4/01/11	151	53.5	34.3	45.1
FLEECER RIDGE	7500	3/29/11	45	12.3	5.1	10.9
FOOLHEN	8280	4/01/11	---	18.6E	9.2	16.2
FOREST LAKE	6400	4/03/11	43	14.4	7.7	11.7
FOUR MILE	6900	3/22/11	33	8.0	5.3	8.4
FREIGHT CREEK	6000	3/29/11	50	16.1	5.4	14.8
FROHNER MDWS SNOTEL	6480	4/01/11	30	8.5	6.5	8.0
GARVER CREEK SNOTEL	4250	4/01/11	43	13.3	8.0	9.9
GIBBONS PASS	7100	3/30/11	68	22.7	11.9	22.7
GOAT MOUNTAIN	7000	3/26/11	47	14.0	3.5	9.7
GOLD CREEK LAKE	7200	3/25/11	66	20.1	16.2	14.7
GOLD STONE	8100	4/01/11	---	18.3E	9.0	16.9
GRASSHOPPER	7000	3/24/11	26	6.8	5.5	5.8
GRAVE CRK SNOTEL	4300	4/01/11	61	21.1	10.7	15.6
GRIFFIN CR DIVIDE	5150	3/29/11	48	14.1	5.5	10.3
GUNSIGHT LAKE	6300	4/01/11	---	47.2E	26.5	39.3
HAND CREEK SNOTEL	5030	4/01/11	47	14.9	7.0	11.7
HAWKINS LAKE SNOTEL	6450	4/01/11	105	34.6	19.9	27.4
HAYMAKER	8050	4/03/11	49	13.5	11.0	11.8
HEBGEN DAM	6550	3/23/11	44	13.4	5.4	12.0
HELL ROARING DIVIDE	5770	3/25/11	99	35.1	21.0	29.5
HERRIG JUNCTION	4850	3/29/11	86	30.9	16.9	26.0
HOLBROOK	4530	3/31/11	28	9.6	1.5	8.2
HOODOO BASIN SNOTEL	6050	4/01/11	135	49.7	23.3	45.3
INDEPENDENCE	7850	3/29/11	69	23.3	9.1	17.4
INTERGAARD	6450	3/26/11	30	8.1	3.9	7.7

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
JAHNKE LAKE TRAIL	7200	4/01/11	---	10.5E	4.0	10.4
JOHNSON PARK	6450	4/03/11	24	6.7	4.2	5.5
KINGS HILL	7500	3/28/11	49	13.0	12.2	13.7
KISHENEHN	3890	3/31/11	35	10.5	2.2	6.8
KRAFT CREEK SNOTEL	4750	4/01/11	42	16.3	6.5	14.1
LAKE CREEK	6100	4/01/11	---	7.7E	4.3	8.2
LAKEVIEW CANYON	6930	4/01/11	---	13.0E	6.9	11.1
LAKEVIEW RDG. SNOTEL	7400	4/01/11	53	13.5	6.8	11.8
LEMHI RIDGE SNOTEL	8100	4/01/11	52	13.3	9.4	11.2
LICK CREEK SNOTEL	6860	4/01/11	43	12.2	8.5	13.0
LITTLE PARK	7400	3/30/11	61	19.1	12.3	15.9
LOGAN CREEK	4300	3/28/11	37	11.4	4.3	6.7
LONE MOUNTAIN SNOTEL	8880	4/01/11	78	24.7	13.4	18.7
LOST SOUL	4800	3/28/11	53	16.9	5.6	14.0
LOWER TWIN SNOTEL	7900	4/01/11	61	17.6	14.7	19.0
LUBRECHT SNOTEL	4680	4/01/11	20	6.8	.0	3.6
LUBRECHT FOREST NO 3	5450	3/30/11	24	7.1	2.4	5.7
LUBRECHT FOREST NO 4	4650	3/30/11	7	2.5	.0	1.3
LUBRECHT FOREST NO 6	4040	3/30/11	16	4.9	.0	1.6
LUBRECHT HYDROPLOT	4200	3/30/11	21	6.7	.0	2.9
MADISON PLT SNOTEL	7750	4/01/11	92	30.6	14.3	25.5
MANY GLACIER SNOTEL	4900	4/01/11	57	21.0	7.1	15.3
MARIAS PASS	5250	4/01/11	63	22.3	7.0	16.8
MIDDLE MILL CREEK	7850	3/23/11	56	16.6	14.4	15.6
MILL CREEK	7500	3/28/11	58	18.5	11.3	12.6
MINERAL CREEK	4000	3/29/11	52	21.2	5.6	17.4
MONUMENT PK SNOTEL	8850	4/01/11	92	28.4	15.6	21.0
MOSS PEAK SNOTEL	6780	4/01/11	145	56.0	35.5	38.2
MOULTON RESERVOIR	6850	4/01/11	---	10.3E	3.8	6.9
MT LOCKHART SNOTEL	6400	4/01/11	76	28.1	12.7	21.1
MUDD LAKE	7650	4/01/11	---	22.5E	10.8	19.5
MULE CREEK SNOTEL	8300	4/01/11	67	18.9	11.1	15.8
N.E. ENTRANCE SNOTEL	7350	4/01/11	49	15.0	5.3	11.3
NEVADA RIDGE SNOTEL	7020	4/01/11	57	19.4	9.5	15.5
NEW WORLD	6900	3/25/11	51	15.0	11.9	14.6
NEZ PERCE CMP SNOTEL	5650	4/01/11	45	15.0	8.3	14.7
NEZ PERCE CREEK	6600	3/29/11	33	9.0	3.7	6.5
NEZ PERCE PASS	6570	3/29/11	84	16.0	8.3	17.8
N.F. ELK CR SNOTEL	6250	4/01/11	50	15.9	7.7	12.4
NF JOCKO SNOTEL	6330	4/01/11	140	55.5	31.2	45.3
NOISY BASIN SNOTEL	6040	4/01/11	155	62.4	34.9	40.9
NOTCH	8500	4/01/11	---	18.1E	13.8	16.7
OPHIR PARK	7150	3/27/11	54	18.2	10.8	16.7
PETERSON MDW SNOTEL	7200	4/01/11	41	10.5	9.3	10.5
PICKET PIN LOWER	6200	3/29/11	21	5.7	.1	2.6
PICKET PIN MIDDLE	7250	3/29/11	41	12.4	6.9	10.9
PICKET PIN UPPER	8100	3/29/11	67	19.1	15.5	19.3
PICKFOOT CRK SNOTEL	6650	4/01/11	46	14.1	8.0	11.7
PIKE CREEK SNOTEL	5930	4/01/11	58	21.7	8.9	27.5
PIPESTONE PASS	7200	3/29/11	28	7.8	4.3	5.7
PLACER BASIN SNOTEL	8830	4/01/11	75	22.3	13.6	17.8
POORMAN CR SNOTEL	5100	4/01/11	123	50.1	22.8	32.7
PORCUPINE SNOTEL	6500	4/01/11	31	8.5	5.2	6.9
POTOMAGETON PARK	7150	3/31/11	53	17.5	9.7	13.8

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
RED MOUNTAIN	6000	4/01/11	62	21.7	12.1	18.8
REVAIS CREEK	4800	3/31/11	4	2.0	.1	1.8
ROCK CREEK	5600	3/30/11	39	14.4	10.4	9.8
ROCK CREEK MEADOW	8160	3/25/11	74	22.6	10.7	20.7
ROCKER PEAK SNOTEL	8000	4/01/11	57	16.4	11.4	14.3
ROCKY BOY SNOTEL	4700	4/01/11	24	7.7	.9	4.4
SACAJAWEA SNOTEL	6550	4/01/11	60	18.3	15.2	14.8
SADDLE MTN SNOTEL	7900	4/01/11	84	29.4	13.4	25.8
S.F. SHIELDS SNOTEL	8100	4/01/11	62	18.0	15.4	17.7
SHORT CREEK SNOTEL	7000	4/01/11	29	7.3	4.3	6.1
SHOWER FALLS SNOTEL	8100	4/01/11	83	24.7	18.8	22.7
SKALKAHO SNOTEL	7260	4/01/11	76	26.7	12.8	24.3
SLAG-A-MELT LAKE	8750	4/01/11	---	28.6E	15.8	24.5
SLEEPING WOMAN SNTL	6150	4/01/11	64	23.4	10.0	17.2
SLIDE ROCK MOUNTAIN	7100	3/27/11	52	15.2	7.2	15.5
SMUGGLER MINE	6960	3/23/11	44	11.4	9.5	9.7
SPOTTED BEAR MTN.	7000	4/01/11	---	18.6E	8.1	14.1
SPUR PARK SNOTEL	8100	4/01/11	81	26.7	16.9	21.5
STAHL PEAK SNOTEL	6030	4/01/11	137	47.9	29.8	35.3
STEMPLE PASS	6600	3/30/11	47	12.7	5.4	10.2
STORM LAKE	7780	3/29/11	52	14.8	11.1	13.3
STRYKER BASIN	6180	3/29/11	112	40.9	24.1	31.9
STUART MOUNTAIN SNTL	7400	4/01/11	120	44.7	23.2	34.2
TAYLOR ROAD	4080	4/01/11	20	6.2	3.9	1.7
TEN MILE LOWER	6600	3/29/11	34	8.6	5.4	7.0
TEN MILE MIDDLE	6800	3/29/11	43	11.0	9.2	11.4
TEPEE CREEK SNOTEL	8000	4/01/11	55	15.6	8.7	13.5
TIMBERLINE CREEK	8850	3/25/11	61	17.7	10.1	14.2
TIZER BASIN SNOTEL	6840	4/01/11	36	8.9	8.3	10.3
TRAIL CREEK	7090	4/01/11	---	10.2E	5.8	8.5
TRINKUS LAKE	6100	4/01/11	---	51.4E	33.4	42.0
TRUMAN CREEK	4060	3/30/11	22	7.0	.6	3.7
TV MOUNTAIN	6800	4/01/11	---	23.1E	10.5	18.3
TWELVEMILE SNOTEL	5600	4/01/11	49	17.7	10.3	17.5
TWENTY-ONE MILE	7150	3/30/11	63	20.0	7.6	16.9
TWIN CREEKS	3580	4/01/11	---	9.6E	6.7	9.6
TWIN LAKES SNOTEL	6400	4/01/11	107	41.9	23.2	39.7
UPPER HOLLAND LAKE	6200	4/01/11	---	41.6E	19.9	34.6
WALDRON SNOTEL	5600	4/01/11	44	14.1	6.5	10.8
WARM SPRINGS SNOTEL	7800	4/01/11	83	25.3	17.4	21.2
WEASEL DIVIDE	5450	3/31/11	111	40.5	21.1	32.9
WEST YELL'ST SNOTEL	6700	4/01/11	46	15.1	6.5	12.8
WHISKEY CREEK SNOTEL	6800	4/01/11	64	21.4	9.0	17.4
WHITE MILL SNOTEL	8700	4/01/11	97	29.5	15.7	24.6
WHITE PINE RIDGE	8850	4/01/11	---	7.0E	7.5	6.0
WILLOW CREEK	6500	3/28/11	33	9.0	5.2	8.1
WOOD CREEK SNOTEL	5960	4/01/11	41	12.6	5.1	10.0
WRONG CREEK	5700	3/28/11	48	15.6	4.4	12.3
WRONG RIDGE	6800	3/28/11	63	21.4	7.4	18.0

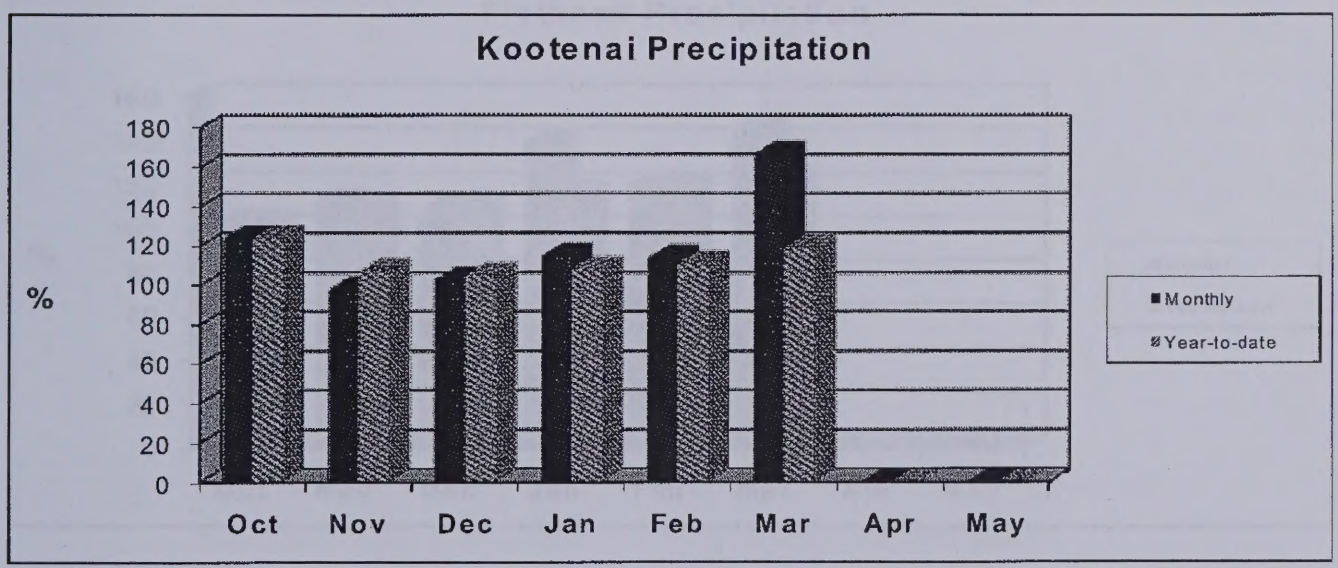
Kootenai River Basin in Montana

Snowpack conditions in the Kootenai River Basin were well above average and increased 9 percent from March 1. Snow water content was 126 percent of average and 203 percent of last year. Snowpack in the Kootenay in Canada was above average. Snow water content was 112 percent of average and 152 percent of last year.



January maximum swe was established in 1997 and minimum was in 1977; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1974 and minimum swe was in 2001and 2005; May maximum swe was in 1974 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during March was 167 percent of average and 216 percent of last year. Valley precipitation during March was 176 percent of average and 308 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2010, was 119 percent of average and 160 percent of last year.



Lake Koocanusa storage was 134 percent of average and 67 percent of last year.

Assuming average precipitation, April through July, streamflows are forecast to average 115 percent.

Surface Water Supply Index (SWSI) was +2.4 in the Tobacco River; +1.9 in the Kootenai Ft. Steele to Libby Dam; +2.6 in the Kootenai River below Libby Dam; +2.1 in the Fisher River; and +1.3 in the Yaak River.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Tobacco R nr Eureka	APR-JUL	138	157	169	124	181	200	136
	APR-SEP	150	172	186	124	200	220	150
Libby Reservoir Inflow (1,2)	APR-JUL	5260	5870	6140	109	6410	7020	5640
	APR-SEP	6320	6940	7220	109	7500	8120	6640
Fisher River nr Libby	APR-JUL	240	265	285	124	305	330	230
	APR-SEP	255	285	305	125	325	355	245
Yaak River nr Troy	APR-JUL	415	470	510	110	550	605	465
	APR-SEP	440	500	540	110	580	640	490
Kootenai R at Leonia (1,2)	APR-JUL	6610	7340	7680	109	8020	8750	7040
	APR-SEP	7770	8520	8860	109	9200	9950	8120

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE KOOCANUSA	5748.0	2345.0	3486.0	1743.7

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
KOOTENAY in CANADA	17	161	112
KOOTENAI MAINTSTEM	7	202	120
TOBACCO	3	178	131
FISHER	5	257	131
YAAK	4	176	122
KOOTENAI in MONTANA	18	203	126
KOOTENAI ab BONNERS FERRY	35	184	120

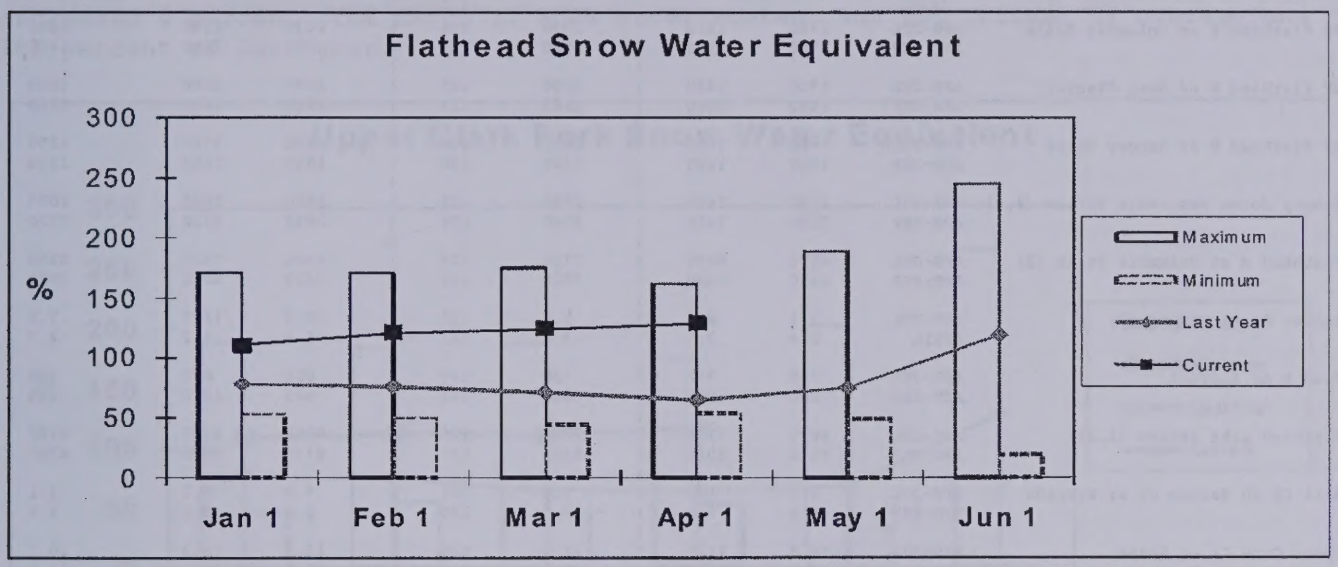
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

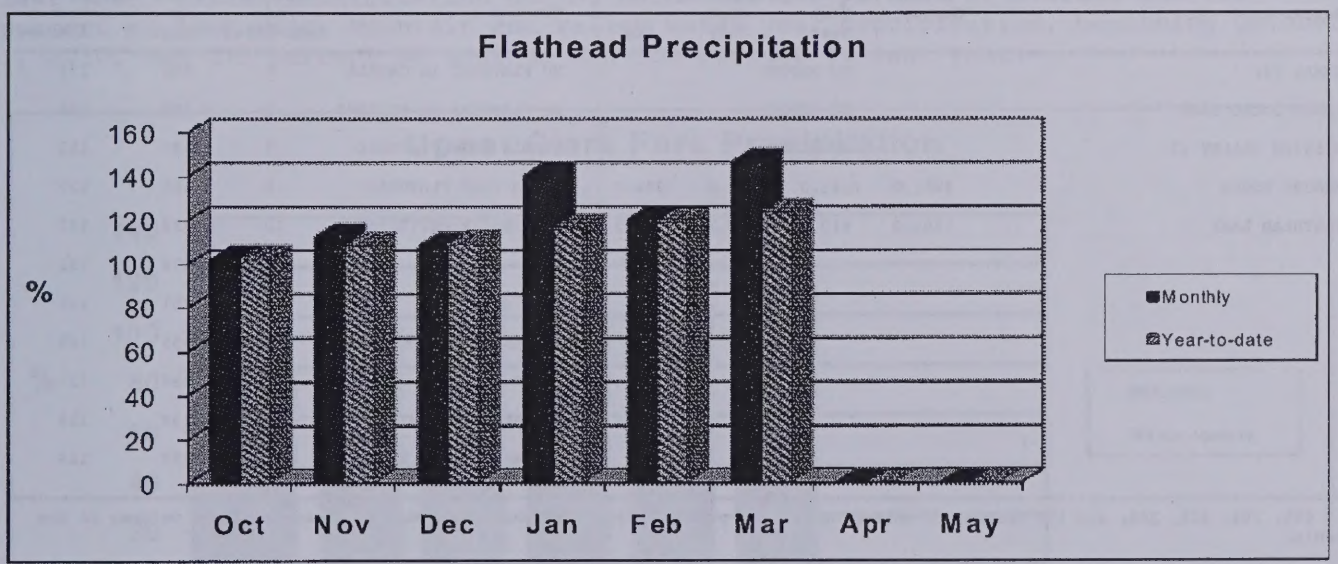
Flathead River Basin

Snowpack conditions in the Flathead River Basin were well above average and increased 6 percent from March 1. Snow water content was 129 percent of average and 198 percent of last year. Snowpack in the Flathead of Canada is well above average. Snow water content was 130 percent of average and 179 percent of last year.



January maximum swe was established in 1997 and minimum was in 2001; February maximum swe was in 1972 and minimum was in 2001; March maximum swe was in 1972 and minimum was in 2005; April maximum swe was in 1972 and minimum was in 2005; May maximum swe was in 1972 and minimum was in 1992; and June maximum swe was in 1974 and minimum was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during March was 147 percent of average and 196 percent of last year. Valley precipitation during March was 131 percent of average and 200 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2010, was 123 percent of average and 157 percent of last year.



Hungry Horse storage was 115 percent of average and 85 percent of last year; and Flathead Lake storage was 110 percent of average and 103 percent of last year.

Assuming average precipitation, April through July, streamflows are forecast to average 137 percent.

Surface Water Supply Index (SWSI) was +2.5 in the North Fork Flathead River; +2.8 in the Middle Fork Flathead River; +3.9 in the South Fork Flathead River; +3.5 in the Flathead River at Columbia Falls; +3.8 in the Swan River; +2.9 in the Flathead River at Polson; data was not available in the Mission Valley; +1.7 in the Little Bitterroot River.

FLATHEAD RIVER BASIN
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
NF Flathead R nr Columbia Falls	APR-JUL	1790	1910	1990	123	2070	2190	1620
	APR-SEP	1980	2120	2210	123	2300	2440	1800
MF Flathead R nr West Glacier	APR-JUL	1760	1890	1980	125	2070	2200	1590
	APR-SEP	1920	2060	2160	124	2260	2400	1740
SF Flathead R nr Hungry Horse	APR-JUL	1460	1550	1620	130	1690	1780	1250
	APR-SEP	1550	1660	1730	130	1800	1910	1330
Hungry Horse Reservoir Inflow (1,2)	APR-JUL	2190	2440	2560	128	2680	2930	2000
	APR-SEP	2330	2610	2730	129	2850	3130	2120
Flathead R at Columbia Falls (2)	APR-JUL	6070	6460	6720	126	6980	7370	5350
	APR-SEP	6580	7020	7320	126	7620	8060	5820
Ashley Ck nr Marion (2)	APR-JUL	7.1	8.5	9.4	131	10.3	11.7	7.2
	APRIL	2.4	3.2	3.8	141	4.4	5.2	2.7
Swan R nr Bigfork	APR-JUL	700	755	790	140	825	880	565
	APR-SEP	800	865	905	140	945	1010	645
Flathead Lake Inflow (1,2)	APR-JUL	6670	7390	7720	125	8050	8770	6180
	APR-SEP	7180	8000	8380	125	8760	9580	6700
Mill Ck ab Bassoo Ck nr Niarada	APR-JUL	6.1	6.9	7.4	181	7.9	8.7	4.1
	APR-SEP	6.6	7.4	7.9	180	8.4	9.2	4.4
South Crow Ck nr Ronan	APR-JUL	10.5	11.9	12.9	128	13.9	15.3	10.1
	APR-SEP	12.0	13.6	14.7	128	15.8	17.4	11.5
Mission Ck nr St. Ignatius	APR-JUL	26	28	30	120	32	34	25
	APR-SEP	31	34	36	120	38	41	30
Sf Jocko R nr Arlee	APR-JUL	45	49	52	173	55	59	30
	APR-SEP	51	56	59	174	62	67	34
NF Jocko R bl Tabor Feeder Canal	APR-JUL	41	43	45	145	47	49	31
	APR-SEP	44	46	48	146	50	52	33

FLATHEAD RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CAMAS (4)		NO REPORT		
LOWER JOCKO LAKE		NO REPORT		
MISSION VALLEY (8)		NO REPORT		
HUNGRY HORSE	3451.0	2165.0	2534.0	1886.7
FLATHEAD LAKE	1791.0	810.1	786.2	738.5

FLATHEAD RIVER BASIN
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
NF FLATHEAD in CANADA	4	182	131
NF FLATHEAD in MONTANA	9	189	126
MIDDLE FORK FLATHEAD	7	184	113
SOUTH FORK FLATHEAD	8	185	127
STILLWATER-WHITEFISH	10	218	137
SWAN	7	176	131
MISSION VALLEY	4	181	146
LITTLE BITTERROOT-ASHLEY	6	355	149
JOCKO	5	198	127
FLATHEAD in MONTANA	41	198	129
FLATHEAD RIVER BASIN	45	197	129

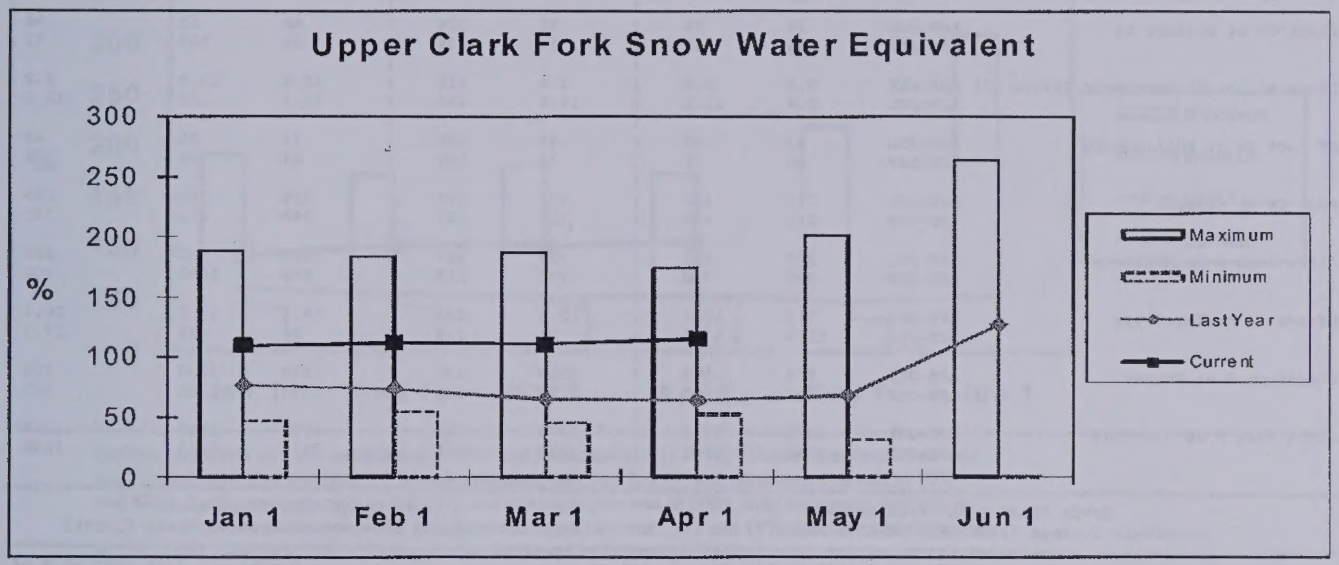
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

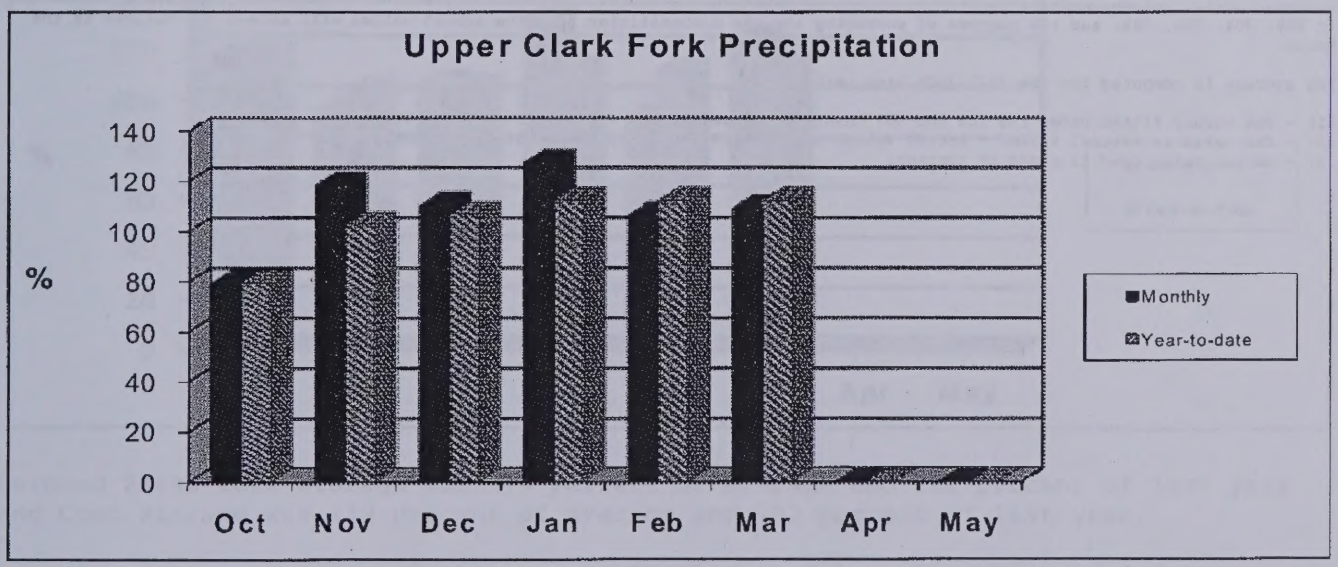
Upper Clark Fork River Basin

Snowpack conditions in the Upper Clark Fork River Basin were above average and decreased 4 percent from March 1. Snow water content was 115 percent of average and 182 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1972 and minimum was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during March was 109 percent of average and 148 percent of last year. Valley precipitation during March was 118 percent of average and 112 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2010, was 112 percent of average and 155 percent of last year.



East Fork Rock Creek storage was 123 percent of average and 95 percent of last year; and Nevada Creek storage was 147 percent of average and 129 percent of last year.

Assuming average precipitation, April through July, streamflows are forecast to average 116 percent.

Surface Water Supply Index (SWSI) was +2.1 in the Clark Fork River above Milltown; and +2.5 in the Blackfoot River.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Little Blackfoot R nr Garrison	APR-JUL	63	79	90	118	101	117	76
	APR-SEP	69	87	99	118	111	129	84
Flint Ck nr Southern Cross	APR-JUL	8.8	12.5	15.0	110	17.5	21	13.7
	APR-SEP	9.9	14.5	17.7	109	21	26	16.2
Flint Ck bl Boulder Ck	APR-JUL	34	48	58	104	68	82	56
	APR-SEP	45	62	74	104	86	103	71
Lower Willow Ck Reservoir Inflow (2)	APR-MAY	5.9	8.0	9.4	115	10.8	12.9	8.2
	APR-JUL	8.8	12.1	14.4	115	16.7	20	12.5
MF Rock Ck nr Philipsburg	APR-JUL	53	63	69	108	75	85	64
	APR-SEP	60	71	78	108	85	96	72
Rock Ck nr Clinton	APR-JUL	215	260	290	107	320	365	270
	APR-SEP	240	290	325	107	360	410	305
Clark Fork R ab Milltown	APR-JUL	500	635	725	120	815	950	605
	APR-SEP	590	740	840	119	940	1090	705
Nevada Ck nr Helmville	APR-MAY	7.3	10.4	12.5	121	14.6	17.7	10.3
	APR-JUL	12.4	17.5	21	121	24	30	17.3
Blackfoot R nr Bonner	APR-JUL	875	980	1050	130	1120	1230	805
	APR-SEP	980	1090	1170	132	1250	1360	890
Clark Fork R ab Missoula	APR-JUL	1400	1620	1770	126	1920	2140	1410
	APR-SEP	1610	1850	2010	126	2170	2410	1600

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
EAST FORK ROCK CREEK	15.6	12.2	12.8	9.9
GEORGETOWN LAKE		NO REPORT		
LOWER WILLOW CREEK		NO REPORT		
NEVADA CREEK	12.6	11.2	8.7	7.6

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
CLARK FORK ab FLINT CREEK	15	151	110
FLINT CREEK	6	152	113
ROCK CREEK	5	172	110
CLARK FORK ab BLACKFOOT	23	159	111
BLACKFOOT	15	220	122
UPPER CLARK FORK BASIN	36	182	115

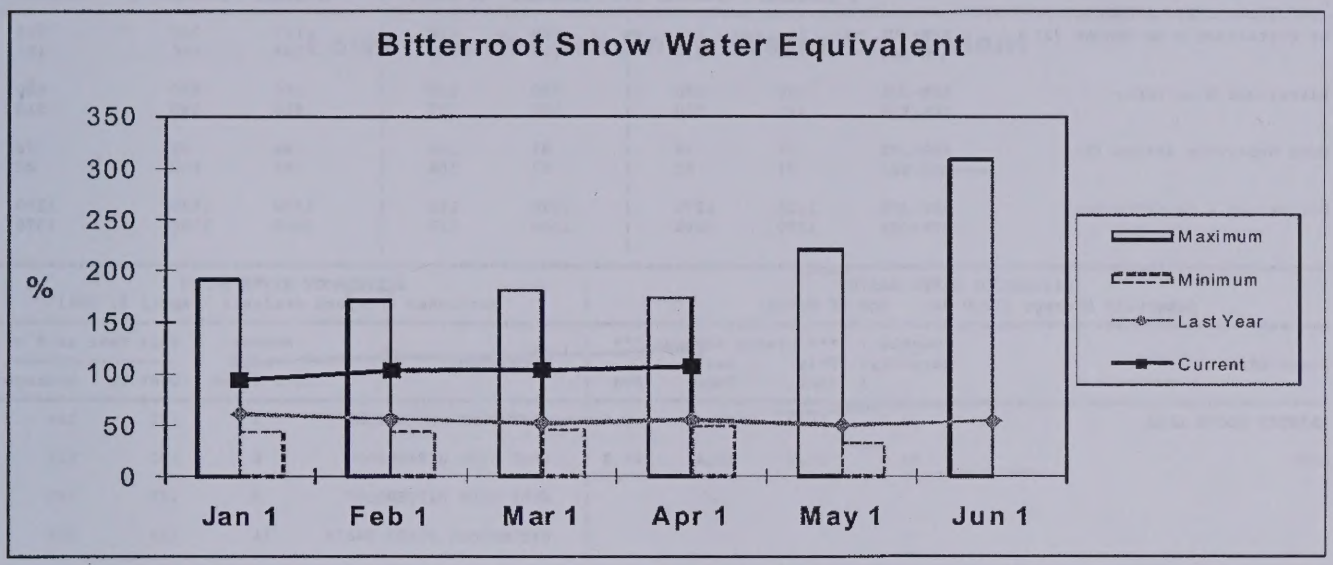
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

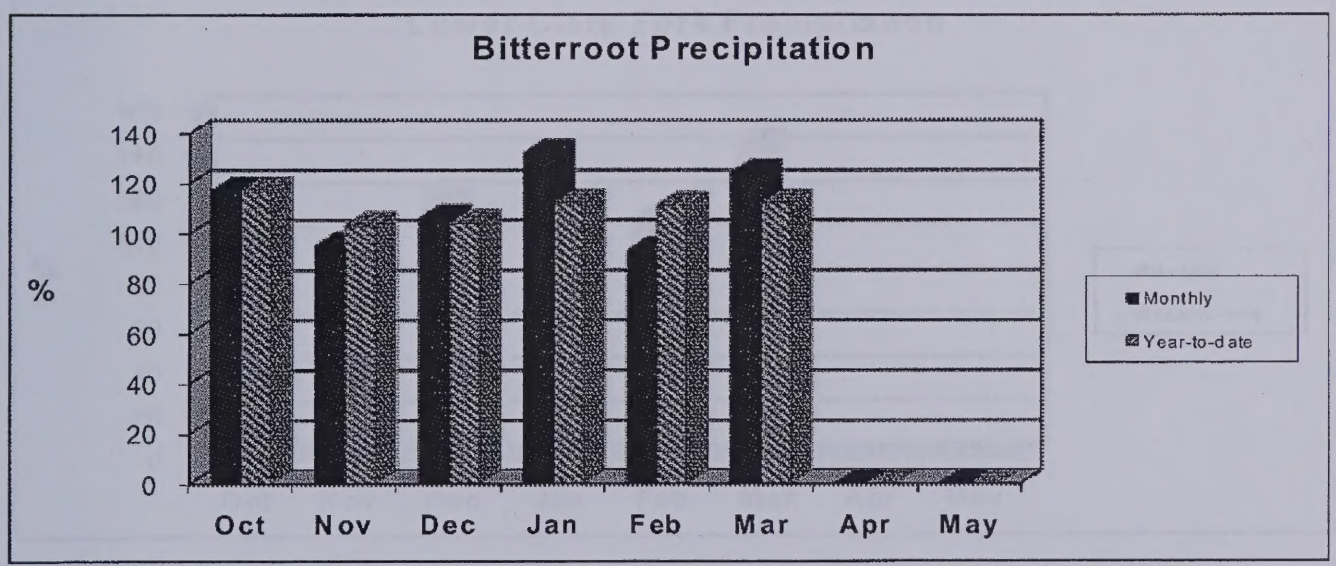
Bitterroot River Basin

Snowpack conditions in the Bitterroot River Basin were above average and increased 4 percent from March 1. Snow water content was 107 percent of average and 195 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum swe was in 1977 and 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1987; and June maximum swe was 1972 and 1974 and minimum swe was in 1987,1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain precipitation during March was 127 percent of average and 177 percent of last year. Valley precipitation during March was 90 percent of average and 85 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2010, was 112 percent of average and 186 percent of last year.



Painted Rocks Lake storage was 174 percent of average and 261 percent of last year and Como storage was 119 percent of average and 183 percent of last year.

Assuming near average precipitation, April through July, streamflows are forecast to average 109 percent.

Surface Water Supply Index (SWSI) was +1.9 in the Bitterroot River.

BITTERROOT RIVER BASIN
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
WF Bitterroot R nr Conner (2)	APR-JUL	118	143	160	112	177	200	143
	APR-SEP	132	158	176	112	194	220	157
Bitterroot R nr Darby	APR-JUL	380	450	500	109	550	620	460
	APR-SEP	440	510	560	109	610	680	515
Como Reservoir Inflow (2)	APR-JUL	71	78	83	106	88	95	78
	APR-SEP	74	82	87	106	92	100	82
Bitterroot R nr Missoula	APR-JUL	1110	1270	1370	110	1470	1630	1250
	APR-SEP	1220	1390	1500	110	1610	1780	1370

BITTERROOT RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
PAINTED ROCKS LAKE	31.7	16.7	6.4	9.6
COMO	34.9	17.7	12.4	14.9

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WEST FORK BITTERROOT	3	201	104
EAST SIDE BITTERROOT	6	205	111
WEST SIDE BITTERROOT	3	187	105
BITTERROOT RIVER BASIN	11	195	107

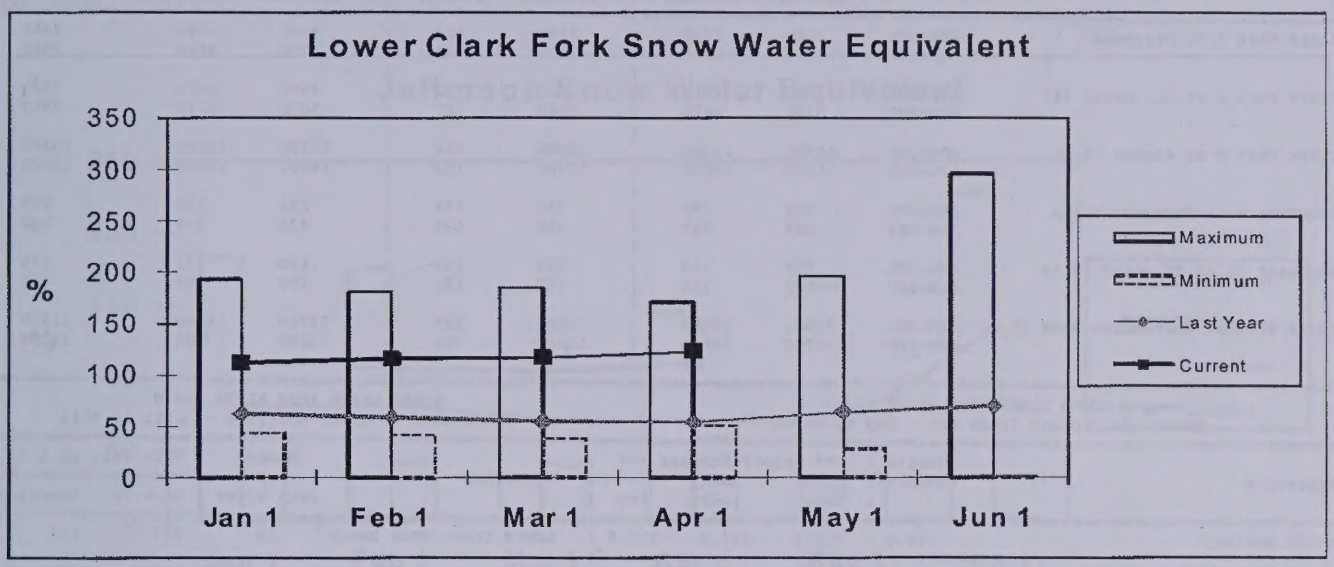
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

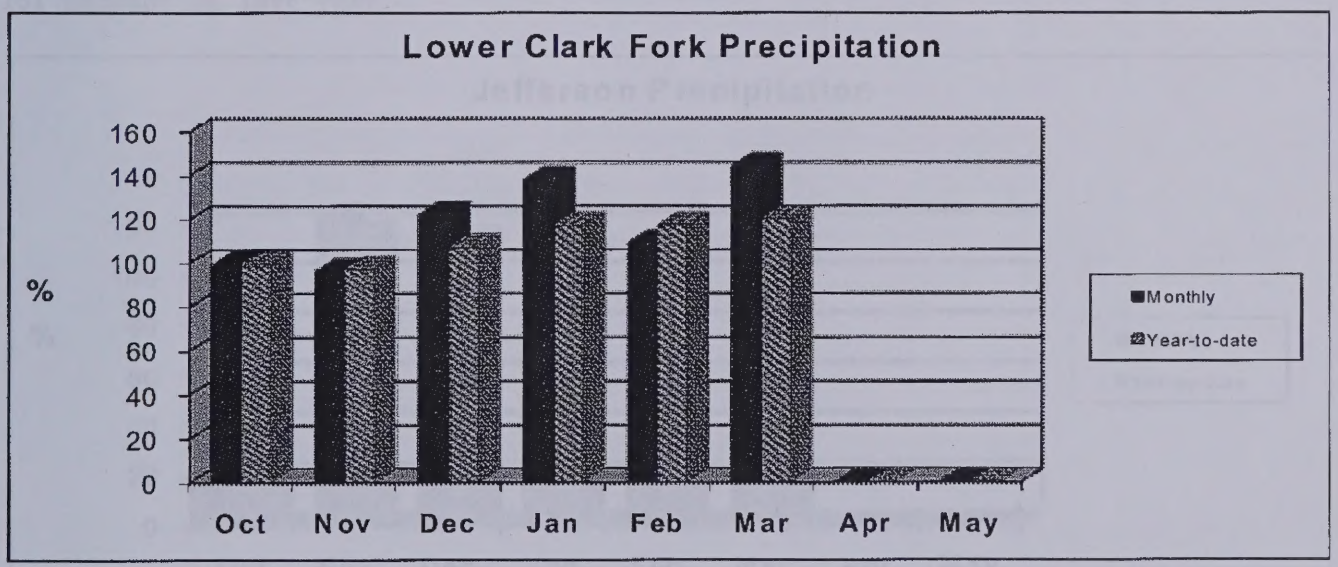
Lower Clark Fork River Basin

Snowpack conditions in the Lower Clark Fork River Basin were well above average and increased 6 percent from March 1. Snow water content was 123 percent of average and 227 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum was in 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1977. Average is for the period 1971 through 2000.

Mountain precipitation during March was 143 percent of average and 186 percent of last year. Valley precipitation during March was 148 percent of average and 190 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2010, was 120 percent of average and 187 percent of last year.



Noxon Rapids storage was 112 percent of average and 94 percent of last year.

Assuming average precipitation, April through July, streamflows are forecast to average 126 percent.

Surface Water Supply Index (SWSI) was +2.3 in the Clark Fork River below Bitterroot River and +2.7 in the Clark Fork River below Flathead River.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Clark Fork R bl Missoula	APR-JUL	2560	2920	3160	119	3400	3760	2660
	APR-SEP	2860	3250	3510	119	3770	4160	2960
Clark Fork R at St. Regis (1)	APR-JUL	3380	4010	4300	122	4590	5220	3520
	APR-SEP	3760	4450	4760	122	5070	5760	3910
Clark Fork R nr Plains (1,2)	APR-JUL	10500	11900	12500	124	13100	14500	10100
	APR-SEP	11500	13000	13700	123	14400	15900	11100
Thompson R nr Thompson Falls	APR-JUL	220	255	275	134	295	330	205
	APR-SEP	250	285	310	135	335	370	230
Prospect Ck at Thompson Falls	APR-JUL	133	144	152	131	160	171	116
	APR-SEP	142	154	162	131	170	182	124
Clark Fork at Whitehorse Rpds (1,2)	APR-JUL	12000	13500	14100	125	14700	16200	11300
	APR-SEP	13200	14800	15500	124	16200	17800	12500

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
NOXON RAPIDS	335.0	305.3	324.5	272.9

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
LOWER CLARK FORK BASIN	13	227	123

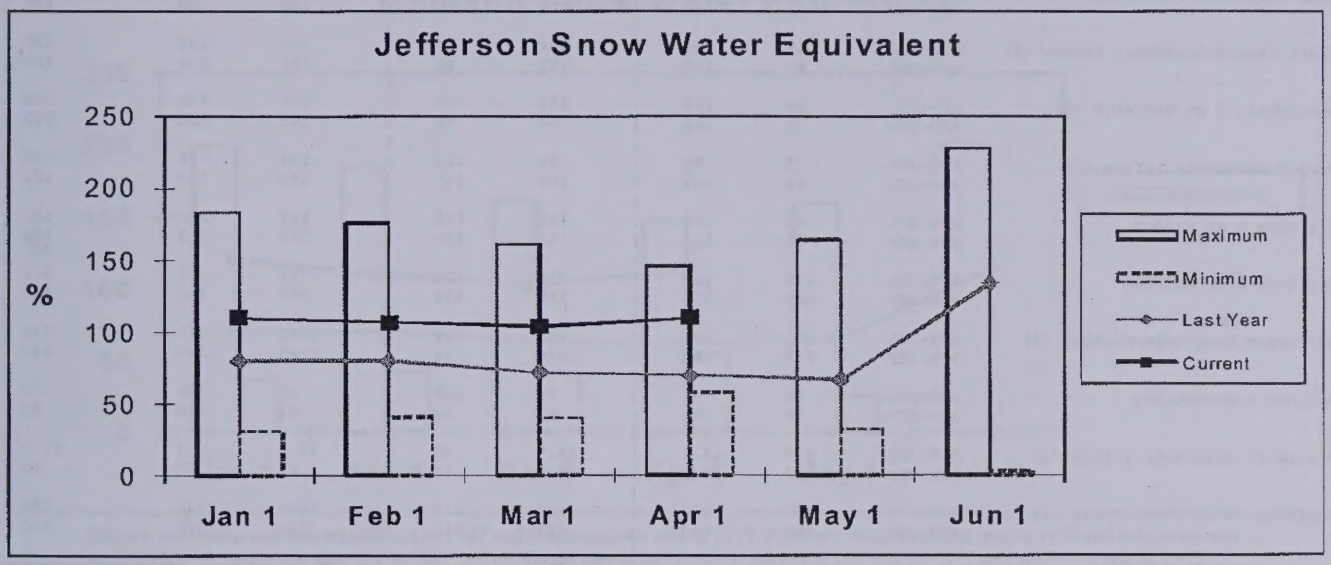
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

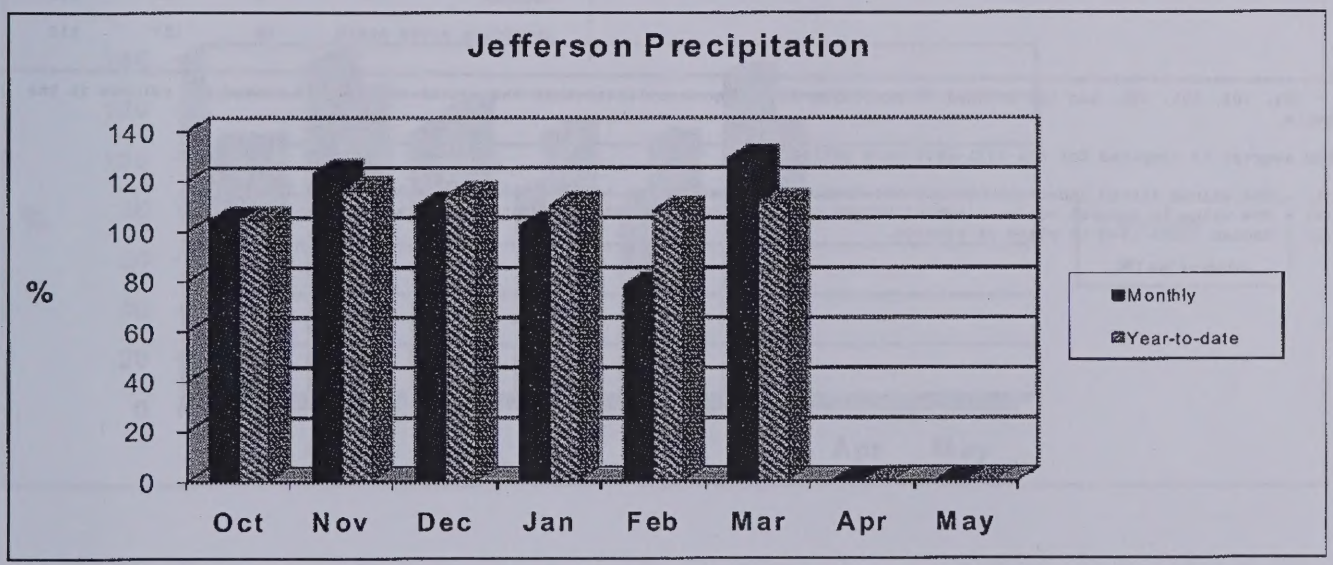
Jefferson River Basin

Snowpack conditions in the Jefferson River Basin were above average and increased 6 percent from March 1. Snow water content was 110 percent of average and 157 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during March was 129 percent of average and 195 percent of last year. There was insufficient valley precipitation data this month. Mountain water year precipitation, beginning October 1, 2010, was 110 percent of average and 151 percent of last year.



Lima storage was 129 percent of average and 111 percent of last year; Clark Canyon storage was 106 percent of average and 96 percent of last year; and Ruby River storage was 104 percent of average and 108 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 106 percent.

Surface Water Supply Index (SWSI) was +1.0 in the Beaverhead River; +1.3 in the Ruby River; +1.5 in the Big Hole River; +0.8 in the Boulder River; and +1.9 in the Jefferson River near Three Forks.

JEFFERSON RIVER BASIN
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Lima Reservoir Inflow (2)	APR-JUL	73	83	90	94	97	107	96
	APR-SEP	80	92	100	96	108	120	104
Clark Canyon Reservoir Inflow (2)	APR-JUL	59	99	126	96	153	193	131
	APR-SEP	81	123	152	97	181	225	156
Beaverhead R at Barretts (2)	APR-JUL	58	121	163	97	205	270	168
	APR-SEP	72	146	196	98	245	320	200
Ruby R Reservoir Inflow (2)	APR-JUL	72	86	95	113	104	118	84
	APR-SEP	86	101	112	111	123	138	101
Big Hole R at Wisdom	APR-JUL	74	113	139	115	165	205	121
	APR-SEP	74	116	145	112	174	215	130
Big Hole R nr Melrose	APR-JUL	575	665	730	120	795	885	610
	APR-SEP	620	720	790	120	860	960	660
Jefferson R nr Twin Bridges (2)	APR-JUL	600	795	930	119	1060	1260	785
	APR-SEP	635	860	1010	115	1160	1380	880
Boulder R nr Boulder	APR-JUL	54	68	78	100	88	102	78
	APR-SEP	56	72	83	98	94	110	85
Willow Ck Reservoir Inflow (2)	APR-JUL	8.8	13.4	16.5	92	19.6	24	17.9
	APR-SEP	9.8	14.9	18.4	92	22	27	20
Jefferson R nr Three Forks (2)	APR-JUL	560	760	900	115	1040	1240	780
	APR-SEP	605	830	985	115	1140	1370	860

JEFFERSON RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LIMA	84.0	50.6	45.4	39.1
CLARK CANYON	255.6	160.5	168.0	152.0
RUBY RIVER	38.8	32.9	30.4	31.5

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
BEAVERHEAD	18	166	113
RUBY	11	121	100
BIGHOLE	20	178	112
BOULDER	9	156	115
JEFFERSON RIVER BASIN	48	157	110

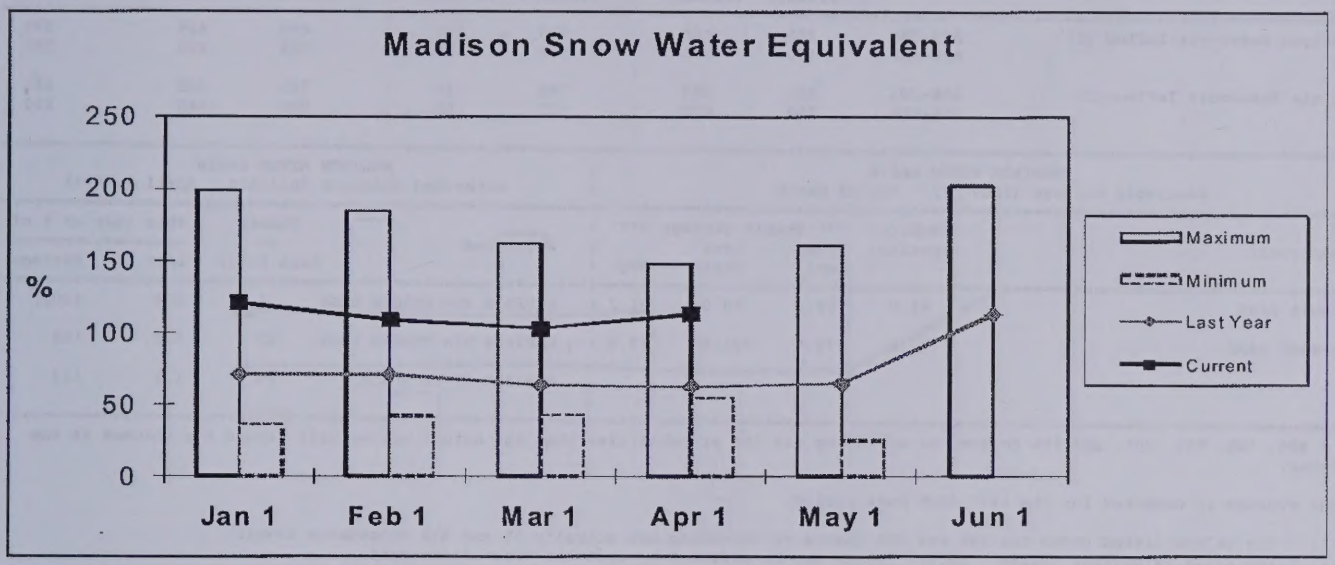
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

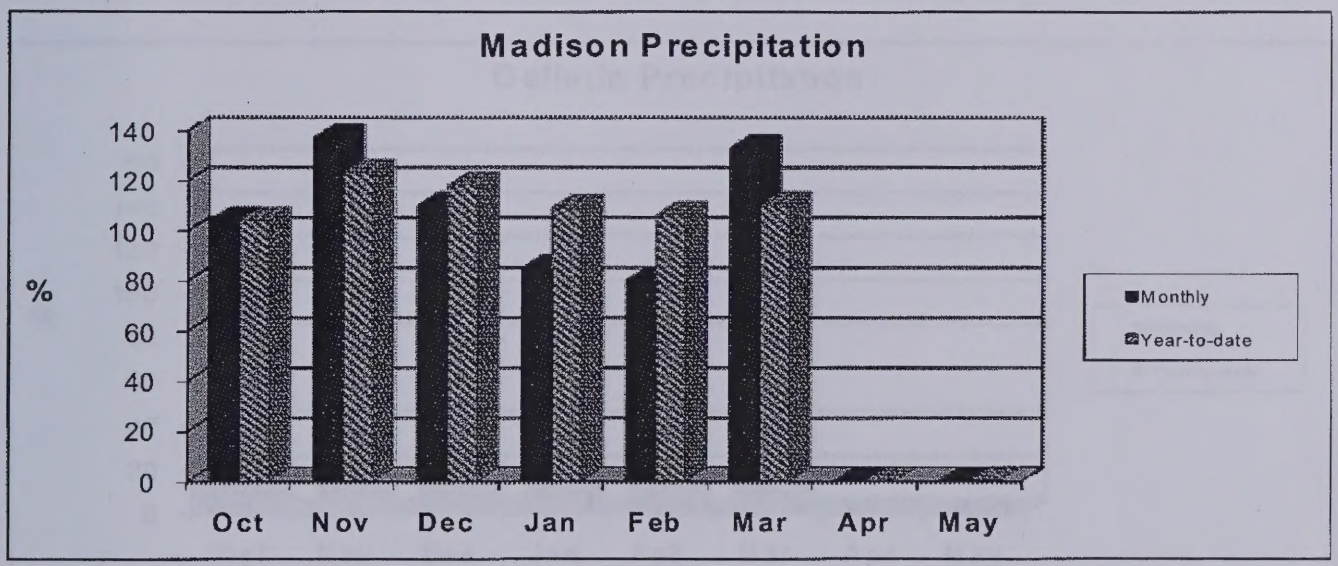
Madison River Basin

Snowpack conditions in the Madison River Basin were above average and increased 10 percent from March 1. Snow water content was 113 percent of average and 179 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1997 and minimum swe was in 1977; and June maximum swe was in 1995 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during March was 133 percent of average and 230 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2010, was 110 percent of average and 158 percent of last year.



Ennis Lake storage was 95 percent of average and 99 percent of last year and Hebgen Lake storage was 107 percent of average and 92 percent of last year.

Assuming average precipitation, April through July, streamflows are forecast to average 110 percent.

Surface Water Supply Index (SWSI) was +1.0 for the Madison River.

MADISON RIVER BASIN
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Hebgen Reservoir Inflow (2)	APR-JUL	385	415	435	110	455	485	395
	APR-SEP	490	525	550	109	575	610	505
Ennis Reservoir Inflow (2)	APR-JUL	625	695	745	110	795	865	680
	APR-SEP	790	870	925	109	980	1060	850

MADISON RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ENNIS LAKE	41.0	29.6	29.9	31.2
HEBGEN LAKE	377.5	276.8	301.6	259.6

MADISON RIVER BASIN
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
MADISON abv HEBGEN LAKE	6	224	120
MADISON blw HEBGEN LAKE	12	156	108
MADISON RIVER BASIN	18	179	113

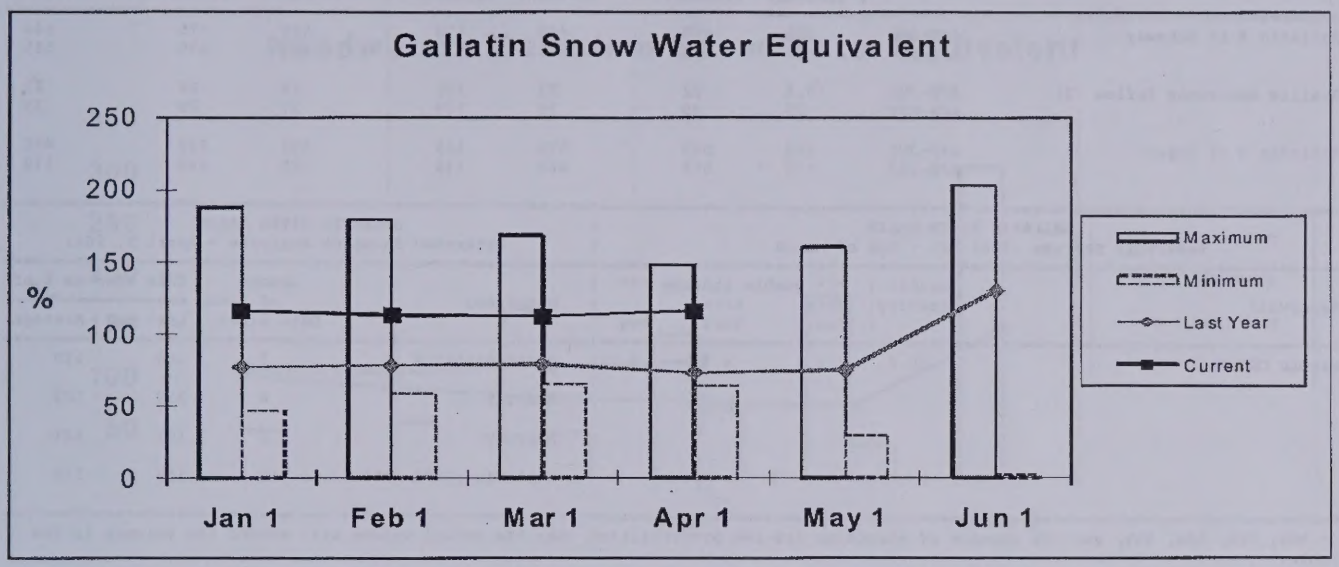
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

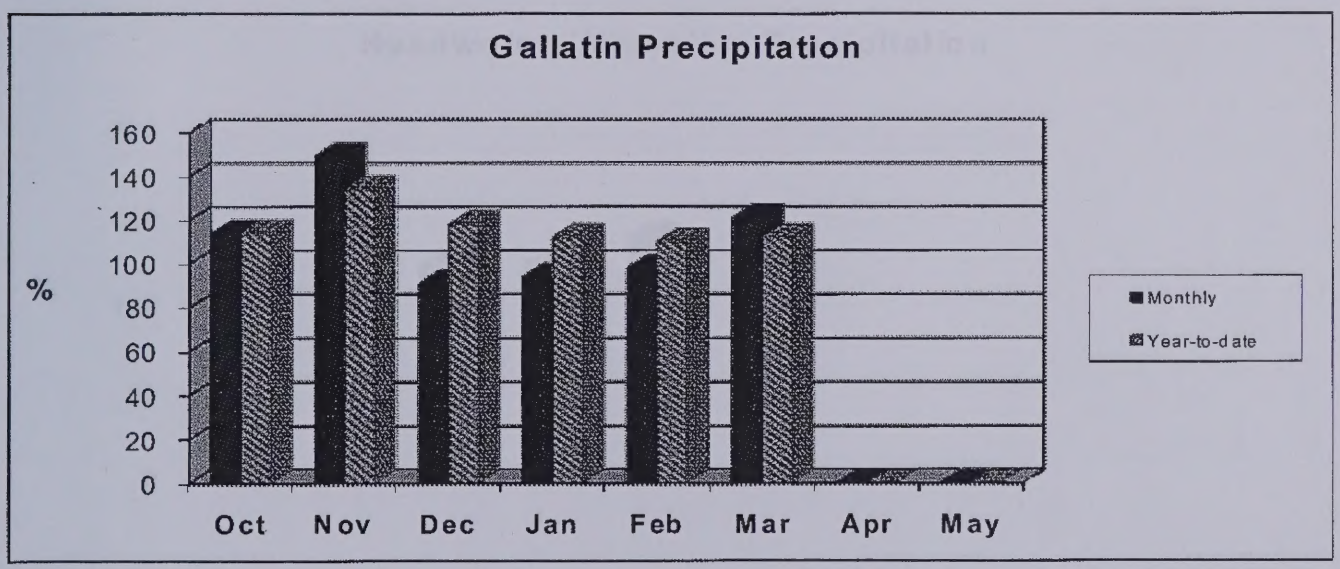
Gallatin River Basin

Snowpack conditions in the Gallatin River Basin were above average and increased 4 percent from March 1. Snow water content was 116 percent of average and 158 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1966; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977 and 2005; April maximum swe was in 1997 and minimum was in 2001; May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1975 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during March was 123 percent of average and 175 percent of last year. Valley precipitation during March was 80 percent of average and 139 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2010, was 112 percent of average and 138 percent of last year.



Middle Creek storage was 136 percent of average and 96 percent of last year.

Assuming average precipitation, April through July, streamflows are forecast to average 110 percent.

Surface Water Supply Index (SWSI) was +2.1 for the Gallatin River.

GALLATIN RIVER BASIN
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ====== Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Gallatin R nr Gateway	APR-JUL	395	450	485	110	520	575	440
	APR-SEP	460	525	565	110	605	670	515
Hyalite Reservoir Inflow (2)	APR-JUL	19.6	22	23	105	24	26	22
	APR-SEP	23	25	26	104	27	29	25
Gallatin R at Logan	APR-JUL	410	505	570	115	635	730	495
	APR-SEP	475	585	660	116	735	845	570

GALLATIN RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MIDDLE CREEK	10.2	6.4	6.7	4.7

GALLATIN RIVER BASIN
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER GALLATIN	7	180	119
HYALITE	4	139	103
BRIDGER	2	127	125
GALLATIN RIVER BASIN	13	158	116

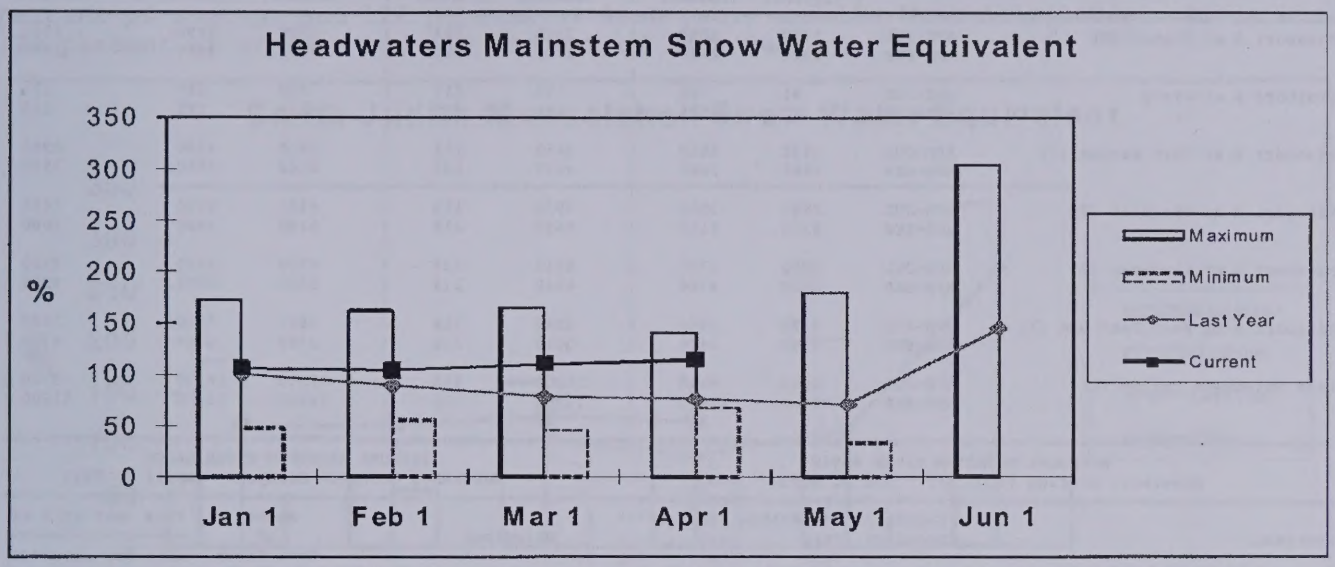
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

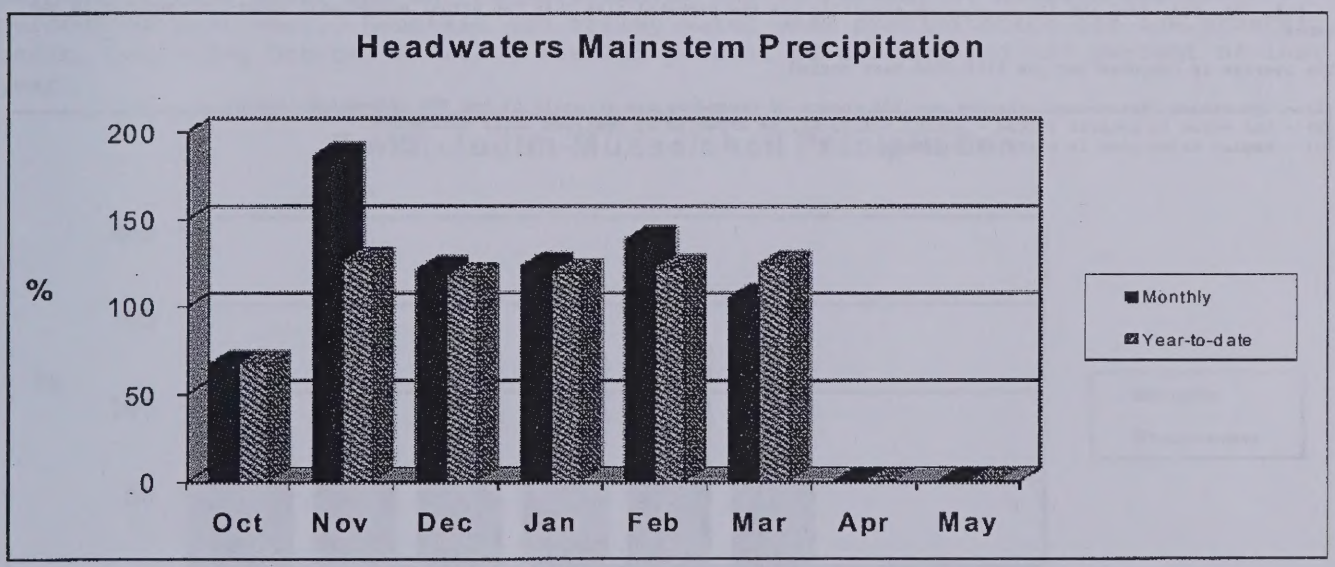
Missouri Mainstem River Basin

Snowpack conditions in the Headwaters Missouri Mainstem River Basin were well above average and increased 1 percent from March 1. Snow water content was 125 percent of average and 171 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1961,1966, and 2005; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during March was 114 percent of average and 176 percent of last year. Valley precipitation during March was 93 percent of average and 294 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2010, was 124 percent of average and 123 percent of last year.



Canyon Ferry Lake storage was 95 percent of average and 88 percent of last year; Helena Valley storage was 136 percent of average and 118 percent of last year; Lake Helena storage was 76 percent of average and 97 percent of last year; Hauser & Helena storage was 112 percent of average and 99 percent of last year; Holter Lake storage was 109 percent of average and 99 percent of last year; and Fort Peck Lake storage was 107 percent of average and 123 percent of last year.

Assuming average precipitation, April through July, streamflows are forecast to average 115 percent.

Surface Water Supply Index (SWSI) was +1.6 in the Missouri River above Canyon Ferry; 0.0 in the Missouri River below Canyon Ferry; +0.7 in the Missouri River above Fort Peck; and +2.4 in the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Missouri R at Toston (2)	APR-JUL	1750	2090	2320	113	2550	2890	2050
	APR-SEP	1920	2420	2700	113	2980	3480	2390
Dearborn R nr Craig	APR-JUL	91	120	139	115	158	187	121
	APR-SEP	93	124	144	115	164	195	125
Missouri R at Fort Benton (2)	APR-JUL	2430	3010	3410	114	3810	4390	2990
	APR-SEP	2890	3600	4070	114	4540	5250	3570
Missouri R nr Virgelle (2)	APR-JUL	2840	3510	3970	115	4430	5100	3450
	APR-SEP	3310	4110	4650	115	5190	5990	4060
Missouri R nr Landusky (2)	APR-JUL	3000	3720	4210	114	4700	5420	3690
	APR-SEP	3510	4360	4940	114	5520	6380	4350
Missouri R bl Fort Peck Dam (2)	APR-JUL	3120	3840	4340	116	4840	5560	3740
	APR-SEP	3580	4440	5010	116	5580	6440	4330
Lake Sakakawea Inflow (2)	APR-JUL	8010	9910	11200	115	12500	14400	9740
	APR-SEP	9170	11400	12900	115	14400	16600	11200

MISSOURI MAINSTEM RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CANYON FERRY LAKE	2043.0	1390.0	1571.0	1467.8
HELENA VALLEY	9.2	5.3	4.5	3.9
LAKE HELENA	12.7	10.0	10.3	13.1
HAUSER & HELENA	74.6	70.6	71.6	62.8
HOLTER LAKE	81.9	80.5	81.3	74.1
FORT PECK LAKE	18910.0	16020.0	13050.0	14966.0

MISSOURI MAINSTEM RIVER BASIN
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
HEADWATERS MAINSTEM	9	150	114
SMITH-JUDITH-MUSSELSHELL	20	142	122
SUN-TETON-MARIAS	14	241	116
MAINSTEM ab FT PECK RES	42	171	119
MILK RIVER BASIN	9	240	169
MISSOURI MAINSTEM BASIN	50	171	125

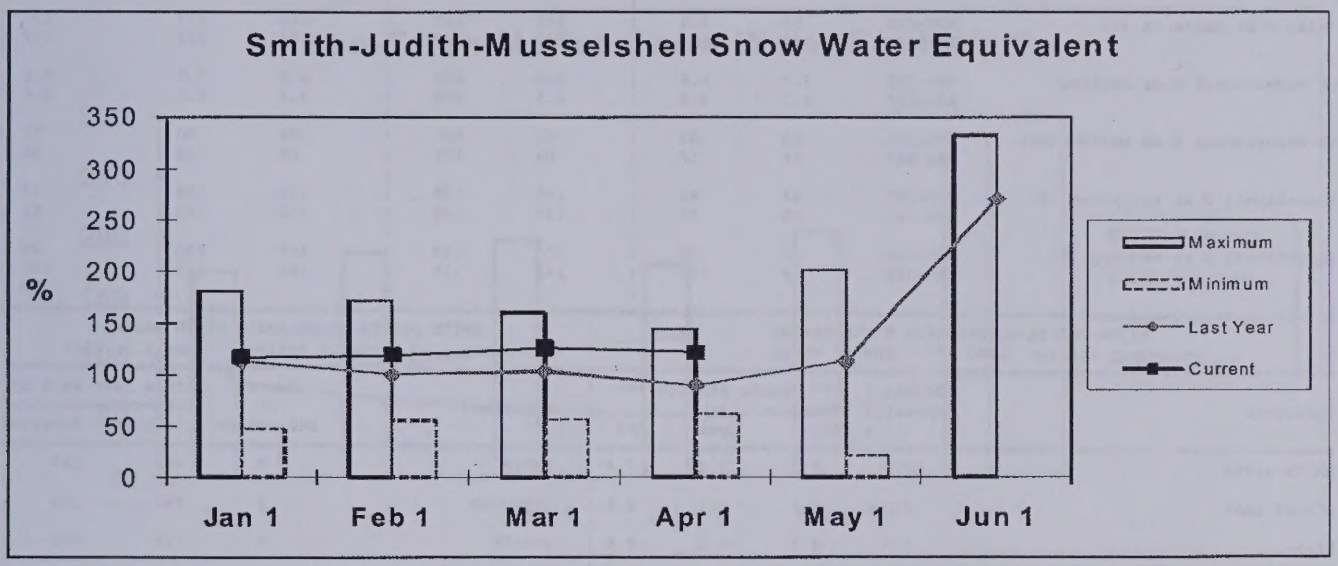
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

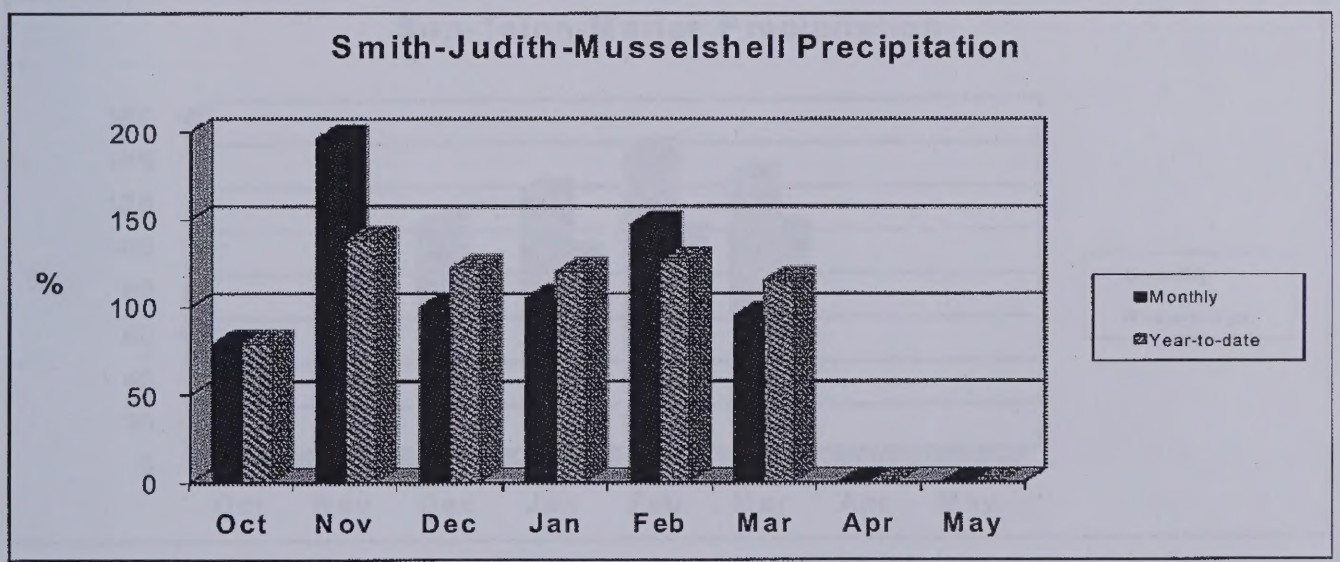
Smith-Judith-Musselshell River Basins

Snowpack conditions in the Smith-Judith-Musselshell River Basins were well above average but decreased 4 percent from March 1. Snow water content was 122 percent of average and 142 percent of last year. Snow water content in the Smith River Basin was 117 percent of average and 142 percent of last year; the Judith River Basin was 123 percent of average and 124 percent of last year; and the Musselshell Basin River was 120 percent of average and 156 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1988; February maximum swe was in 1978 and minimum swe was in 1987; March maximum swe was in 1978 and minimum swe was in 1987 and 2005; April maximum swe was in 1970 and minimum swe was in 1992; and May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1967 and minimum swe was in 1987, 1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during March in the Smith-Belts was 103 percent of average and 133 percent of last year; in the Judith was 82 percent of average and 165 percent of last year; and in the Musselshell was 92 percent of average and 296 percent of last year. Mountain and valley water year precipitation for the greater basin, beginning October 1, 2010, was 115 percent of average and 122 percent of last year.



Smith River storage was 115 percent of average and 115 percent of last year; Ackley storage was 131 percent of average and 102 percent of last year; Bair storage was 138 percent of average and 135 percent of last year; Martinsdale storage was 163 percent of average and 102 percent of last year; and Deadman's Basin was 121 percent of average and 134 percent of last year.

Assuming average precipitation, April through July, streamflows are forecast to average 127 percent.

Surface Water Supply Index (SWSI) was +2.2 in the Smith River, +3.6 in the Upper Judith River, and +2.8 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Sheep Ck nr White Sulphur Springs	APR-JUL	15.6	18.8	21	123	23	26	17.1
	APR-SEP	17.4	21	24	120	27	31	20
Smith R bl Eagle Ck (2)	APR-JUL	93	124	145	109	166	197	133
	APR-SEP	99	136	162	109	188	225	149
NF Musselshell R nr Delpine	APR-JUL	3.7	4.8	5.6	122	6.4	7.5	4.6
	APR-SEP	4.3	5.6	6.5	120	7.4	8.7	5.4
SF Musselshell R ab Martinsdale	APR-JUL	36	52	63	121	74	90	52
	APR-SEP	38	56	68	121	80	98	56
Musselshell R at Harlowton (2)	APR-JUL	54	85	105	136	125	156	77
	APR-SEP	55	88	110	136	132	165	81
Musselshell R nr Roundup (2)	APR-JUL	42	105	147	149	189	250	99
	APR-SEP	38	100	142	139	184	245	102

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
SMITH RIVER	10.6	8.5	7.4	7.4
ACKLEY LAKE	7.0	4.2	4.1	3.2
BAIR	7.0	6.2	4.6	4.5
MARTINSDALE	23.1	17.8	17.4	10.9
DEADMAN'S BASIN	72.2	65.8	49.0	54.2

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SMITH	9	142	117
HIGHWOOD	2	291	139
JUDITH	8	124	123
MUSSELSHELL	8	156	120
SMITH-JUDITH-MUSSELSHELL	20	142	122

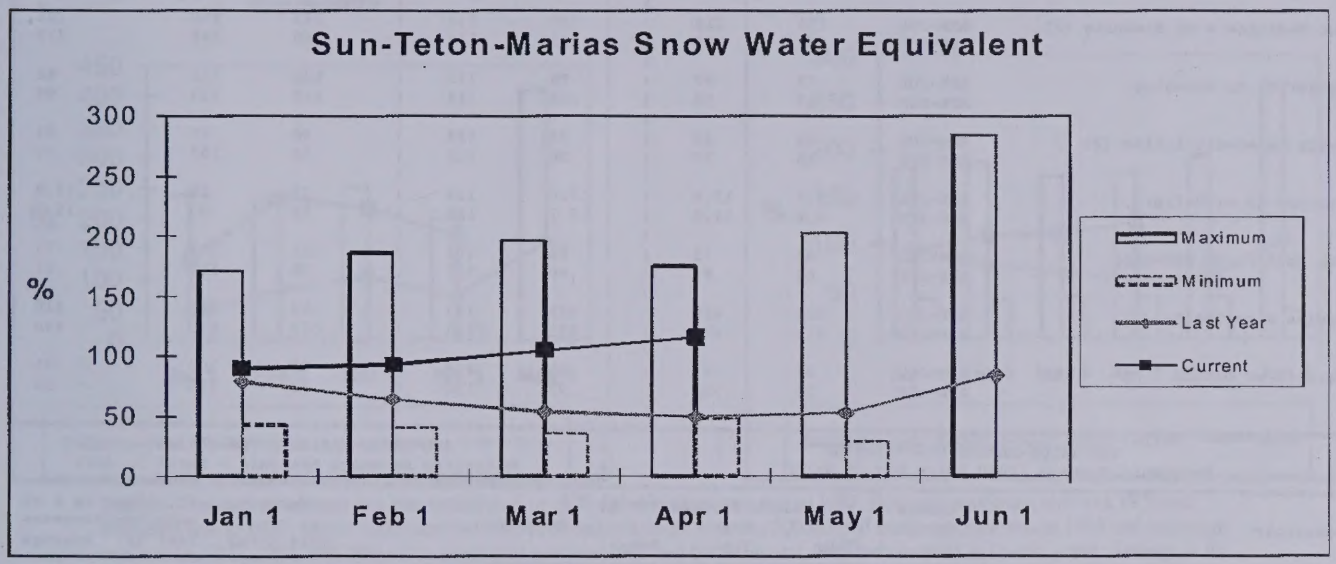
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

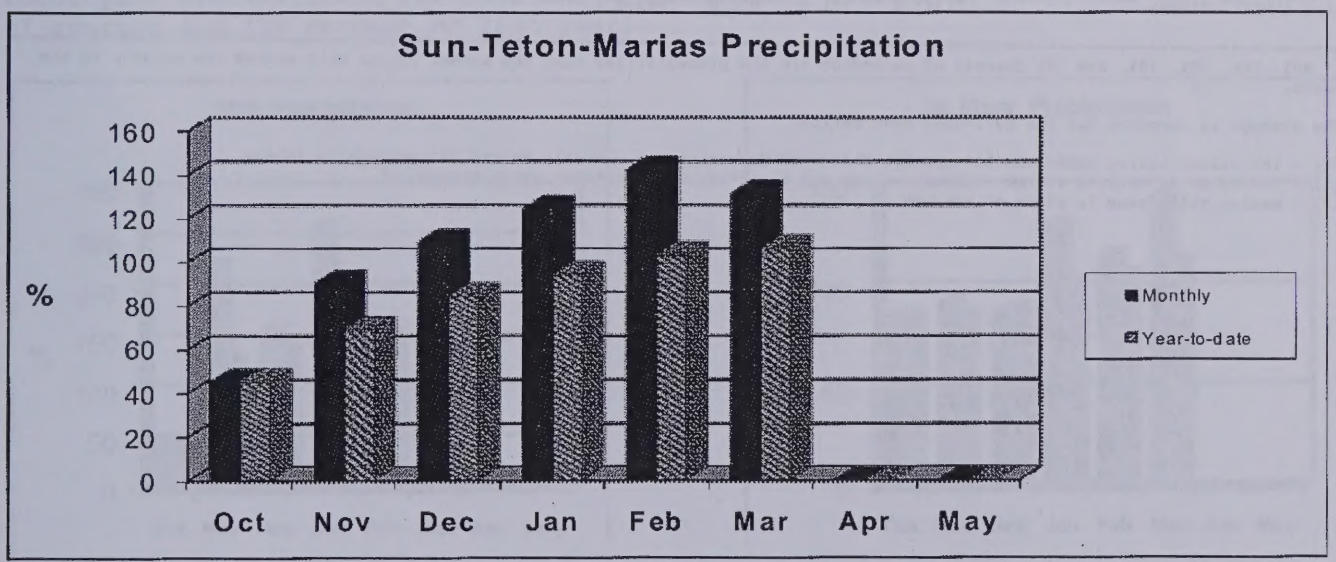
Sun-Teton-Marias River Basins

Snowpack conditions in the Sun-Teton-Marias River Basins were above average and increased 11 percent from March 1. Snow water content was 116 percent of average and 233 percent of last year. Snow water content in the Sun River Basin was 132 percent of average and 304 percent of last year; the Teton River Basin was 125 percent of average and 239 percent of last year; and the Marias River Basin was 105 percent of average and 209 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum was in 1972 and minimum swe was in 1987, 1992, and 1998. Average is for the period 1971 through 2000.

Mountain and valley precipitation during March in the Sun was 127 percent of average and 275 percent of last year; in the Teton was 149 percent of average and 342 percent of last year; and in the Marias was 126 percent of average and 241 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2010, was 106 percent of average and 157 percent of last year.



Gibson storage was 30 percent of average and 58 percent of last year; Pishkun storage was 115 percent of average and 104 percent of last year; Willow Creek storage was 111 percent of average and 99 percent of last year; Lower Two Medicine Lake storage was 49 percent of average.

Assuming average precipitation, April through July, streamflows are forecast to average 117 percent.

Surface Water Supply Index (SWSI) was +1.4 in the Sun River; +1.8 in the Teton River; +2.1 in the Birch/Dupuyer Creeks; +1.2 in the Marias above Tiber Reservoir; and +2.6 in the Marias below Tiber Reservoir.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ====== Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Gibson Reservoir Inflow (2)	APR-JUL	435	480	515	112	550	595	460
	APR-SEP	475	530	565	112	600	655	505
Two Medicine R nr Browning (2)	APR-JUL	191	215	230	112	245	270	205
	APR-SEP	205	230	245	114	260	285	215
Badger Ck nr Browning	APR-JUL	77	90	99	115	108	121	86
	APR-SEP	83	98	108	114	118	133	95
Swift Reservoir Inflow (2)	APR-JUL	55	66	73	114	80	91	64
	APR-SEP	65	77	86	112	95	107	77
Dupuyer Ck nr Valier	APR-JUL	5.7	12.8	17.6	126	22	29	14.0
	APR-SEP	6.6	14.4	19.7	126	25	33	15.7
Cut Bank Ck nr Browning	APR-JUL	63	75	83	108	91	103	77
	APR-SEP	68	81	90	107	99	112	84
Marias R nr Shelby (2)	APR-JUL	320	420	485	117	550	650	415
	APR-SEP	315	420	495	113	570	675	440
Teton R nr Dutton	APR-JUL	21	47	65	128	83	109	51
	APR-SEP	26	54	73	124	92	120	59

SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GIBSON	99.1	16.2	27.7	53.6
PISHKUN	32.0	21.0	20.2	18.3
WILLOW CREEK	32.2	26.5	26.9	23.8
LOWER TWO MEDICINE LAKE	11.9	4.8	4.0	9.7
FOUR HORNS LAKE	19.2	8.8	4.8	12.0
SWIFT	30.0	14.5	19.3	17.4
LAKE FRANCES	112.0	77.2	45.4	69.1
LAKE ELWELL (TIBER)	1347.0	771.4	699.0	645.6

SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SUN	7	304	132
TETON	4	239	125
MARIAS	6	209	105
SUN-TETON-MARIAS	15	233	116

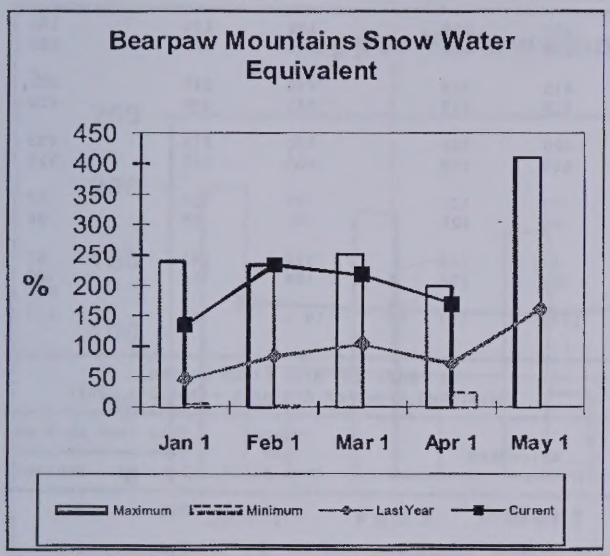
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

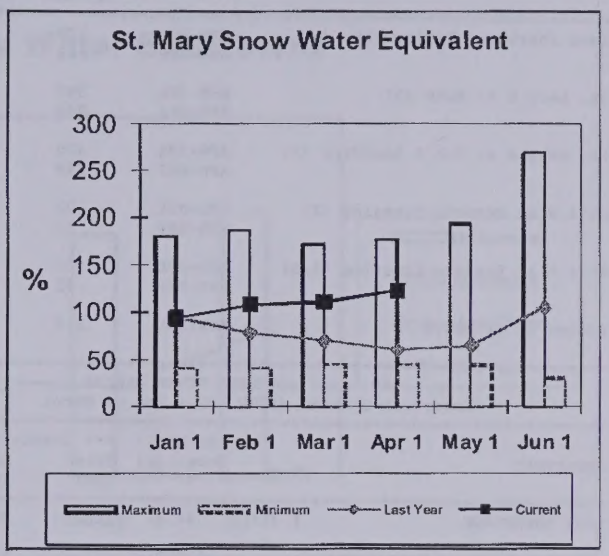
The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

St. Mary and Milk River Basins

Snowpack in the Saint Mary River Basin was well above average but decreased 4 percent from March 1. Snow water content was 140 percent of average and 210 percent of last year. The Milk River Basin (Bearpaw Mountains) was well above average. Snow water content was 180 percent of average and 240 percent of last year.

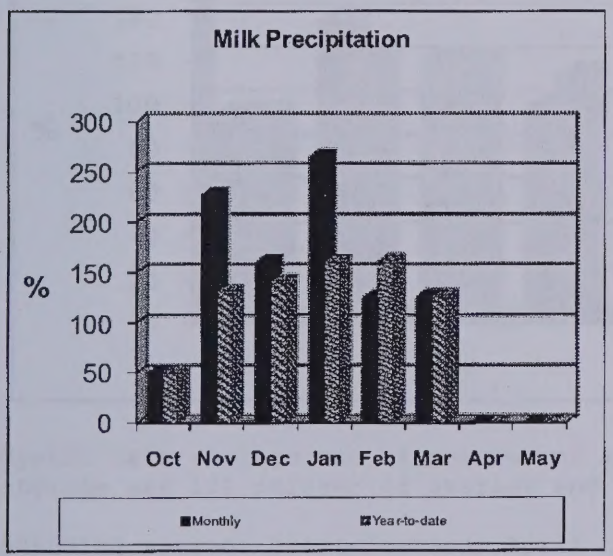


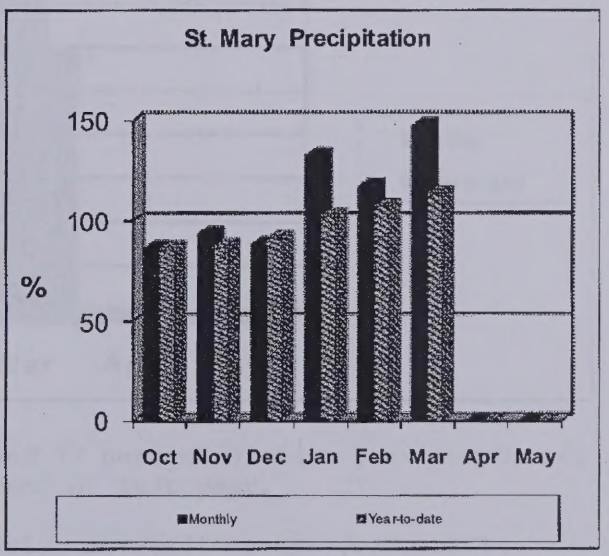


Bearpaw - January maximum swe was established in 1978 and minimum swe was in 1981; February maximum swe was 1978 and minimum was in 1973; March maximum swe was 1978 and minimum swe was 2005; April maximum swe was in 1985 and minimum swe was in 1973, 1983, and 1986; May maximum swe was 1975 and the minimum, 0.0, has occurred in several years. Average is for the period 1971 through 2000.

St. Mary - January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 19972 and minimum swe was in 1977; and June maximum swe was in 1972 and minimum swe was 1992. Average is for the period 1971 through 2000.

Mountain and valley precipitation in the St. Mary River Basin during March was 147 percent of average and 192 percent of last year; and in the Milk River Basin during March was 93 percent of average and 311 percent of last year. Mountain and valley water year precipitation for both basins, beginning October 1, 2010, was 125 percent of average and 154 percent of last year.





Assuming average precipitation, April through July, streamflows in the St. Mary are forecast to average 117 percent and the Milk to average 164 percent.

Lake Sherburne storage was 179 percent of average and 185 percent of last year; Fresno storage was 114 percent of average and 173 percent of last year; Beaver Creek storage was not available; and Nelson storage was 134 percent of average and 96 percent of last year.

Surface Water Supply Index (SWSI) was +2.8 for the St. Mary and +2.9 for the Milk River.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Lake Sherburne Inflow (2)	APR-JUL	108	116	122	116	128	136	105
	APR-SEP	123	132	139	114	146	155	122
St. Mary R nr Babb (2)	APR-JUL	380	420	445	116	470	510	385
	APR-SEP	440	485	515	114	545	590	450
St. Mary R at Int'l Boundary (2)	APR-JUL	425	480	520	120	560	615	435
	APR-SEP	515	575	615	119	655	715	515
Milk R at Western Crossing (3)	APR-JUL	32	39	43	130	47	54	33
	APR-SEP	33	41	46	128	51	59	36
Milk R at Eastern Crossing (2,3)	APR-JUL	57	82	99	163	116	141	61
	APR-SEP	62	90	108	156	126	154	69
Beaver Ck nr Havre	APR-JUL	12.8	15.5	17.3	199	19.1	22	8.7

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE SHERBURNE	64.3	45.9	24.8	25.7
FRESNO	127.0	85.3	49.3	75.0
BEAVER CREEK		NO REPORT		
NELSON	66.8	47.7	49.8	35.6

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
ST. MARY	3	204	123
BEARPAW MOUNTAINS	3	240	170
CYPRESS HILLS, CANADA	6	0	169
MILK RIVER BASIN	8	240	180
ST. MARY & MILK BASINS	12	210	140

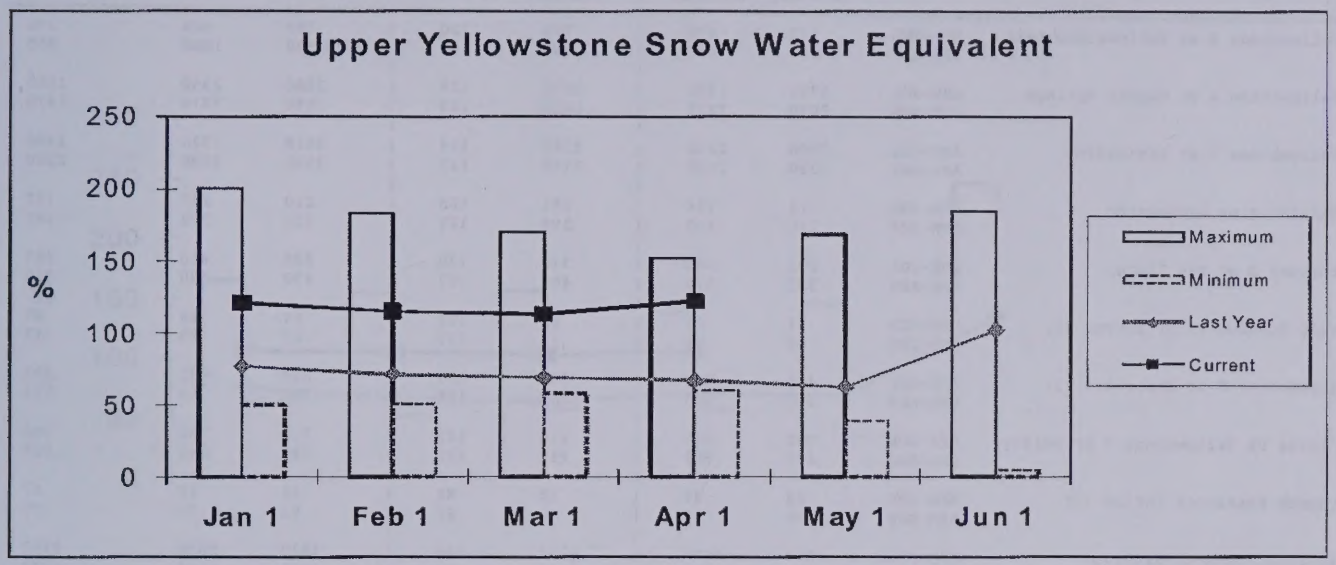
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

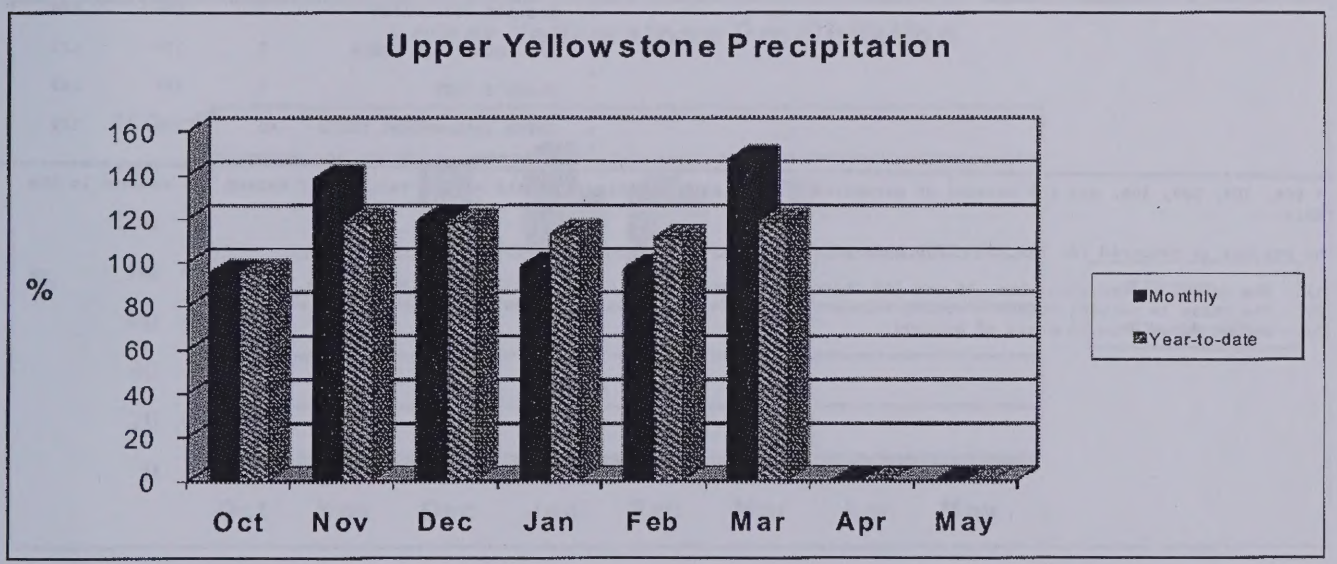
Upper Yellowstone River Basin

Snowpack conditions in the Upper Yellowstone River Basin were well above average and increased 9 percent from March 1. Snow water content was 122 percent of average and 182 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1997 and minimum swe was in 2001; April maximum swe was in 1971 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1987; and June maximum swe was 1996 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during March was 148 percent of average and 236 percent of last year. Valley precipitation during March was 135 percent of average and 302 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2010, was 118 percent of average and 163 percent of last year.



Mystic Lake storage was 94 percent of average and 77 percent of last year and Cooney storage was 121 percent of average and 109 percent of last year.

Assuming average precipitation, April through July, streamflows are forecast to average 117 percent.

Surface Water Supply Index (SWSI) was +2.2 in the Yellowstone River above Livingston; +2.6 in the Shields River; +3.1 in the Boulder River; +1.7 in the Stillwater River; 0.0 in the Rock/Red Lodge Creeks; +2.6 in the Clarks Fork River; and +2.3 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<= Drier = Future Conditions = Wetter =>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Yellowstone R at Yellowstone Lake	APR-JUL	615	670	710	120	750	805	590
	APR-SEP	805	880	930	116	980	1060	805
Yellowstone R at Corwin Springs	APR-JUL	1790	1960	2070	126	2180	2350	1650
	APR-SEP	2070	2280	2420	123	2560	2770	1970
Yellowstone R at Livingston	APR-JUL	2000	2210	2360	124	2510	2720	1900
	APR-SEP	2330	2590	2760	121	2930	3190	2280
Shields R nr Livingston	APR-JUL	114	154	181	125	210	250	145
	APR-SEP	120	165	196	121	225	270	162
Boulder R at Big Timber	APR-JUL	300	345	370	130	395	440	285
	APR-SEP	320	370	400	127	430	480	315
West Rosebud Ck nr Roscoe (2)	APR-JUL	54	58	61	102	64	68	60
	APR-SEP	68	75	79	103	83	90	77
Stillwater R nr Absarokee (2)	APR-JUL	445	500	540	109	580	635	495
	APR-SEP	520	590	635	109	680	750	585
Clarks Fk Yellowstone R nr Belfry	APR-JUL	590	640	675	125	710	760	540
	APR-SEP	650	705	745	125	785	840	595
Cooney Reservoir Inflow (2)	APR-JUL	28	34	38	81	42	48	47
	APR-SEP	36	43	48	84	53	60	57
Yellowstone R at Billings	APR-JUL	3660	4070	4350	124	4630	5040	3510
	APR-SEP	4010	4750	5090	124	5430	6160	4120

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MYSTIC LAKE	21.0	1.7	2.2	1.8
COONEY	27.4	22.1	20.2	18.3

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
YELLOWSTONE ab LIVINGSTON	18	194	122
SHIELDS	5	137	123
BOULDER-STILLWATER	7	188	128
RED LODGE-ROCK CREEK	7	179	121
CLARK'S FORK	7	193	122
UPPER YELLOWSTONE BASIN	40	182	122

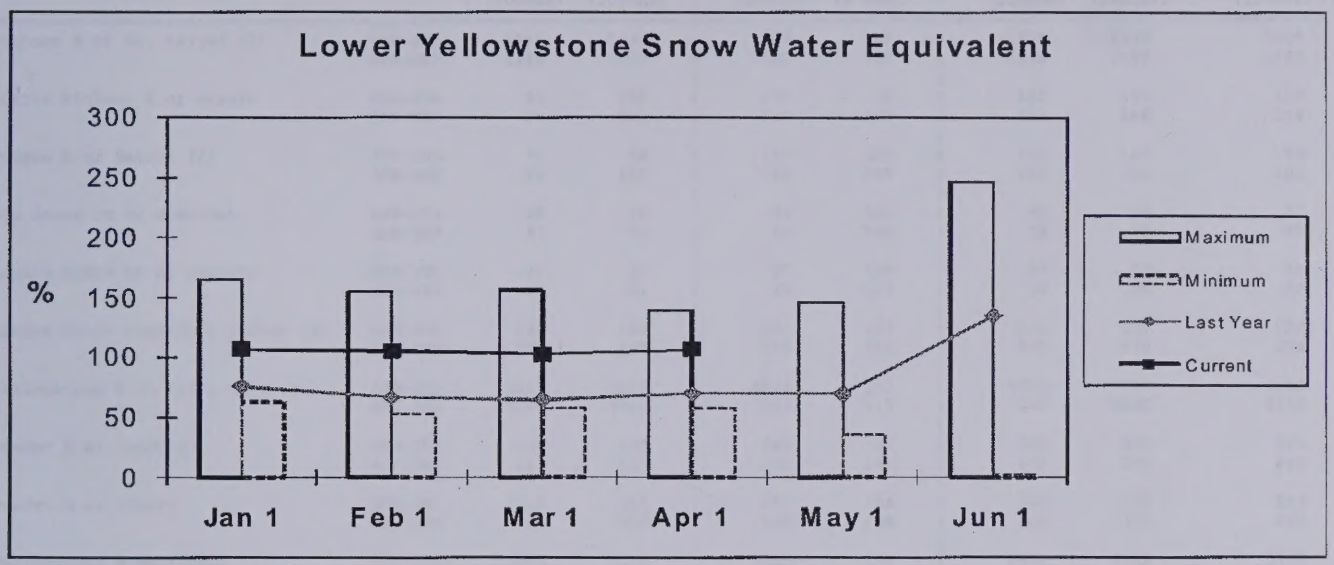
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

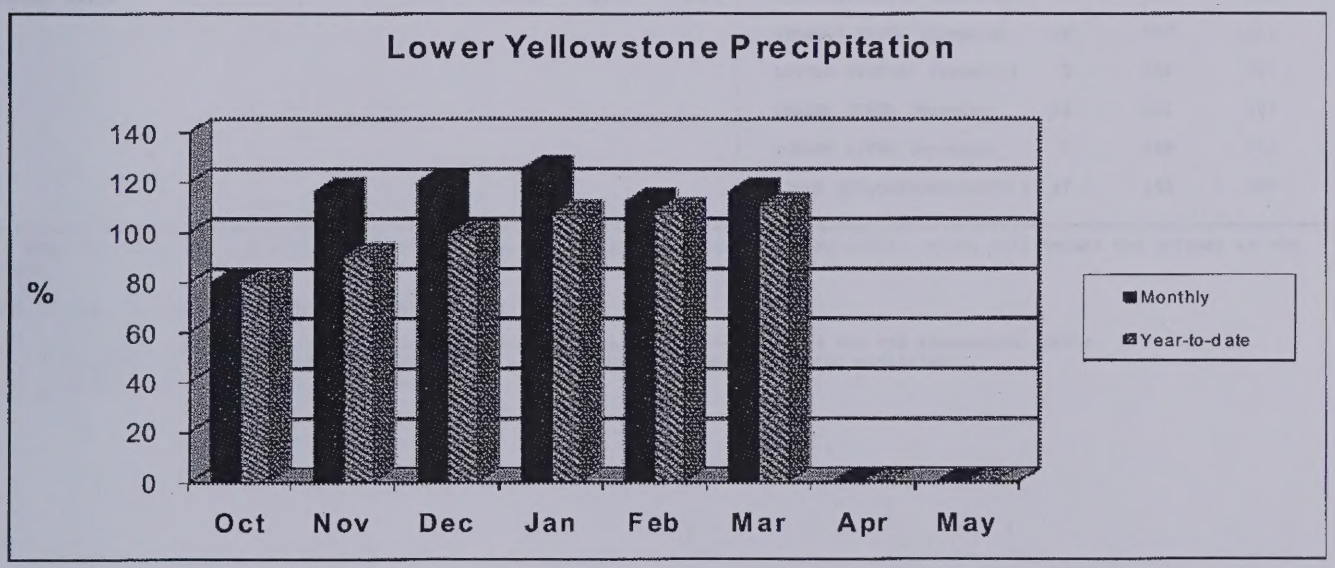
Lower Yellowstone River Basin

Snowpack conditions in the Lower Yellowstone River Basin were above average and increased 4 percent from March 1. Snow water content was 107 percent of average and 153 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 2000; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1986 and minimum swe was in 2001; April maximum swe was in 1986 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1981; and June maximum swe was in 1995 and minimum swe was in 2001. Average is for the period 1971 through 2000.

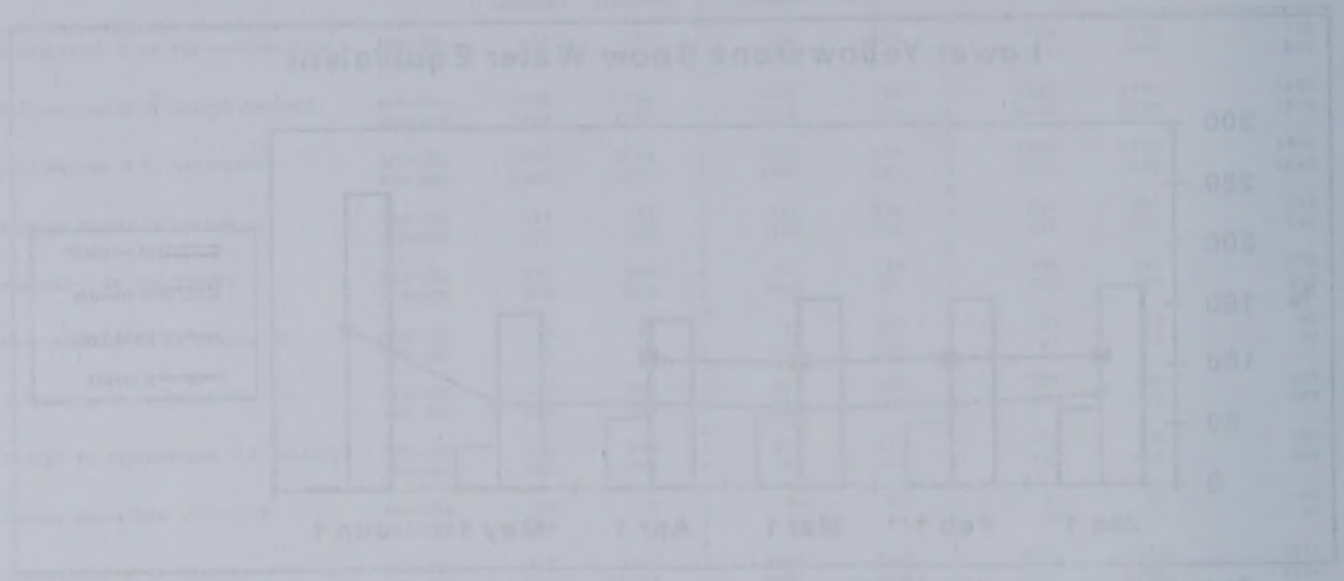
Mountain and valley precipitation during March was 115 percent of average and 136 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2010, was 109 percent of average and 139 percent of last year.

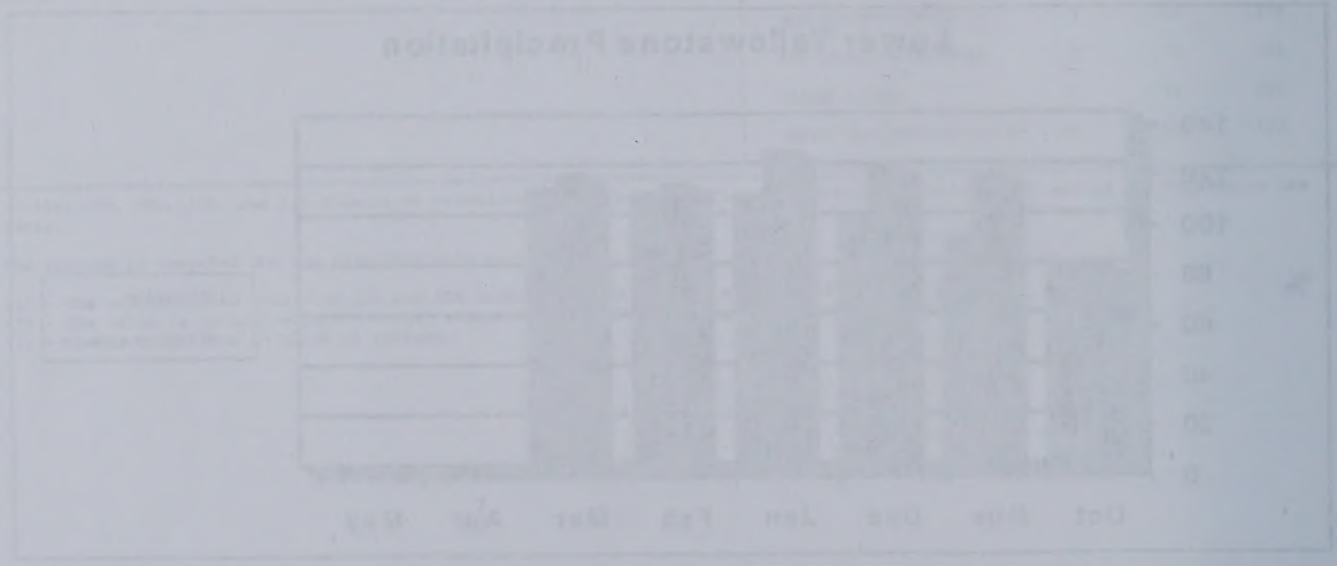


Bighorn Lake storage was 107 percent of average and 93 percent of last year and Tongue River storage was 191 percent of average and 100 percent of last year.

Assuming average precipitation, April through July, streamflows are forecast to average 107 percent.

Surface Water Supply Index (SWSI) was +1.4 in the Bighorn River below Bighorn Lake; +1.2 in the Little Bighorn River; +1.9 in the Yellowstone River below Bighorn River; +2.4 in the Tongue River; and +1.7 in the Powder River.





LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Bighorn R nr St. Xavier (2)	APR-JUL	1110	1470	1720	107	1970	2330	1610
	APR-SEP	1180	1600	1880	107	2160	2580	1760
Little Bighorn R nr Hardin	APR-JUL	83	108	125	98	142	167	128
	APR-SEP	94	121	140	97	159	186	144
Tongue R nr Dayton (2)	APR-JUL	73	89	100	104	111	127	96
	APR-SEP	84	102	114	105	126	144	109
Big Goose Ck nr Sheridan	APR-JUL	38	48	54	104	60	70	52
	APR-SEP	47	56	63	105	70	79	60
Little Goose Ck nr Bighorn	APR-JUL	27	33	37	109	41	47	34
	APR-SEP	34	41	45	107	49	56	42
Tongue River Reservoir Inflow (2)	APR-JUL	136	195	235	107	275	335	220
	APR-SEP	160	225	265	106	305	370	250
Yellowstone R at Miles City (2)	APR-JUL	5110	5800	6270	117	6740	7430	5360
	APR-SEP	5630	6680	7260	117	7840	8880	6210
Powder R at Moorhead	APR-JUL	105	173	220	107	265	335	205
	APR-SEP	126	197	245	107	295	365	230
Powder R nr Locate	APR-JUL	112	194	250	106	305	390	235
	APR-SEP	132	220	280	108	340	430	260
Yellowstone R nr Sidney (2)	APR-JUL	4800	5660	6250	114	6840	7700	5480
	APR-SEP	5480	6390	7130	114	7870	8770	6280

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
BIGHORN LAKE	1356.0	864.7	927.4	809.9
TONGUE RIVER	79.1	57.6	57.7	30.1

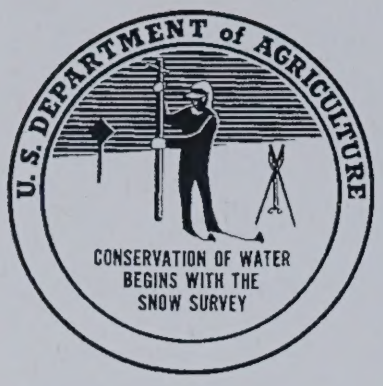
LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WIND RIVER (Wyoming)	20	150	103
SHOSHONE RIVER (Wyoming)	6	173	105
BIGHORN RIVER (Wyoming)	20	159	111
LITTLE BIGHORN (Wyoming)	3	156	107
TONGUE RIVER (Wyoming)	10	151	107
POWDER RIVER (Wyoming)	8	129	113
LOWER YELLOWSTONE BASIN (	47	153	107

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.



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Montana
Water Supply Outlook Report

Natural Resources Conservation Service
Bozeman, MT